SEQUENCE LISTING

<110> Salceda, Susana
Macina, Roberto
Recipon, Herve
Sun, Yongming
Liu, Chenghua

<120> Compositions and Methods Relating to Prostate Specific Genes and Proteins

<130> DEX-0283

<150> 60/252,189
<151> 2000-11-21

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ggcaattaac atcttgtctt ctttgtaaga caagacatgg tgcaaaagga aataaataat 180

tctaagtctt gttaagacta tcctaaaggc cattgccaga agctattaaa aacataatct 240

taaaaatatt cagtctattg gaatatatcc ctaattctaa ttaaaagctg aataaacttc 300

ttgctagtat taattagttg tgggtgtgaa tttcatcagg tccccatcgt attaatgaag 360

gacattcata aaatagatag taaagataaa tttaaaagcc aaccagtggc ctcaccctct 420

tttttactca aaatatagtt tatattaata aactggaaag acatcagaag tgtagacagc 480

tactgtaaag taaatattaa atgtaggact caatcaacaa gaataactat aaagaatatg 540

atgccaaaat aatatgacac gacaccactc ctatagatca gtgcggggca atgcactaga 600

aaagaagtct aactatgaag tattagaaaa agatgttggt ttaaagcgat ttttgcctaa 660

gagtttactg gattctgtca gggccaaaac actaagaaaa ctgatgcaac aaacatgtag 720

acaagttacg aaccttaata gagaagaaag tattctgaaa ttctttgaag atcctgtctc 780

cagtctacag atttggataa ggaatgcttc aagtgtgctc ttggttcaag ctggattatt 840

tcagtggaac tggcaatcgg cccagaagaa ggaatcagtt acttgacg 888

<210> 22
<211> 363
<212> DNA
<213> Homo sapien

<400> 22
accgtgcaga tctcatgcta tgttggttac tattttctat ctaattctga aaagttctgg 60

aataataatg tccatttatt tgattttagg gatgtttcag attcatttcc aggagtgggt 120

cagccatagt ttattcacat actgtattca aataatatta gacttaataa tttcaaaaat 180

acatatttag gcctctgctg tatgagtaac agagataatc tttaatttcc cttcccttcc 240

ccacagagca cttggtgtaa atggaatatt tggtctgtat atgtctcact ttcagtagtt 300

tgaaagtatt taacaaagaa gataaccatt tggtatgaaa gcaaactatg cctggtgctc 360

ata 363

<210> 23
<211> 383
<212> DNA
<213> Homo sapien

<400> 23
tgtgctgcag ttcggttacg tggtcgcggc gaggtgtcaa gctgattgat aaggttgttc 60

aagtggtcta catagctgct gattttctgt cacaattatt gattgagttt gttgaaattt 120

ctcattataa ttgtggattt gactattcct ctttgtagct cttccagttt ttgatttgtg 180

tatcttacag ctctgtcatt atgtgcatat gtatttcgaa ttgttatgtc ttcttgatag 240

ttaacctctt taatcactgt aaaatgacct tttttatcct cagtaatatg aattgttcca 300

aaatatactt tttctgatta tttaaatagc aacctccaga ttatcttata tggttggttt 360

tatactttcc tacatccctt caa 383

<210> 24
<211> 711
<212> DNA
<213> Homo sapien

<400> 24
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tgtcccaggc aagcaaagat agaagatcac catcactaag actggcctag gttttatcct 120

caattatgtt aactctataa tgtcagtctg gcacaataac ttttaggcct aattttctca 180

tctaaacata gtatgggtat aacaacgatg atcttaccca tattacaaaa tttttttgag 240

aatcaattga tgaaagcatt aatctggtga agtttttatt attcaatgat ttagggaatg 300

ttttcacata atggaataat tagtaacaac acaagcagtc atggcataaa agagtaatga 360

gaactaacat tgtcttaact cgttacatgg tgttgaggtc cgttatattt aatactaacg 420

ttttacattg ttatagtatc tatttgtaaa tttatgactc attctttcca tactagtggt 480

gaggttggtt tatgctaaac ttaaaagatg cagagaccta agatcccagg gtagtaactt 540

ggctacgatc acactaacta tgatagtgtt tataaataac ccagattcta caccaagaag 600

tctgactcaa gagctcataa gtgtcagtag gggggtgtag tcgtattata tgctgtctgt 660

actccttctc ctagtttgtt taaaaaacac ttacatgtac ctgcccaagc c 711

<210> 25
<211> 812
<212> DNA
<213> Homo sapien

<400> 25
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acattttcat accttctggc caaataattt aatggtgcca ttttttataa agatgaaaaa 120

gcgagagaaa ttaataaaaa gaatgggatg ttgctcaaac cattatgttg aggttaataa 180

aactaatttt aaataatatt ttaagatgca cagaaataaa attagaggtc gcattcaagt 240

tattcattta taattgtaaa taatttaact acaataattg tttagttacc ttatttcaat 300

ggtatgtccc aataattaga cataatgttc caacagaaat taacccaaga aggcaagaag 360

tctcaaaagc atattataaa taatacagtg tgtaatttaa taatacataa tgaaaacatt 420

aaccatctaa ataatgaaac attactttgt aacccaatta tattaattaa taaaattctc 480

taagttcaat agtttattat cattaattgt aacacagctg gttgaatgaa attttgataa 540

tttccattag tgcactttta actttataag aacatataga ctagacttca gtaagatgga 600

agggtaggat ttttcatcct tcattctagc ctacaaaaca acttacttgc agctattcag 660

aagtggtaat accccttgga gaactctaga tccactccag catctgtagt gtagaacaac 720

agcagcagat aaaaaaaaaa aaaaaaaccc acgttttagg ggggaacacc ttttcctttt 780

ctgggccgtt tttcccgggg gagagtccct ta 812

<210> 26
<211> 440
<212> DNA
<213> Homo sapien

<400> 26

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ctttggcata ctctgtcatc aaggcaattt acctaaacat tctgaaatgt aggtttcaca 120

tctgtaaaat ggggagctgc tgcagctcac agtatgttgt aaaattaaat gagtatataa 180

ggcacggtac atgtaactgt ggaaatgctg agttgcaggg tatgcatatc ctcaagttta 240

atggatatca ccaaattgct tttcacatca tcaaaattct taattataag caagagaaca 300

ccattatgga tcattcaaac caggaaaatt tctttttta aagaatgttg gaattagctt 360

acagaatctc aggaagtgct tgagaaccac ccaaatatga atggaattga ctaatggtga 420

ttgctgcact ggttatgggt 440

<210> 27
<211> 164
<212> DNA
<213> Homo sapien

<400> 27
ccctcactcg acactgtaca cactatgcgc ctggggctta tagatgcatg gtcgagcggt 60

ccgccagtgc ttaatgtagt atctgcagaa tacggcttac aataaaccgc catgacacat 120

gcacccctga acctaaaata aaagtttaat aaagtcatct ttga 164

<210> 28
<211> 186
<212> DNA
<213> Homo sapien

<400> 28
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ggtgtcttca agcaactctc aggtgaaata gcctagcttc tgttgctgta gaactgcttt 120

cctggagcct tcattcagtt tgtagctttg tagttgatac ttcaaatatt ataagatcac 180

tggtgt 186

<210> 29
<211> 186
<212> DNA
<213> Homo sapien

<400> 29
actccagcct gggtgacaga gcgggaccct ctaaaaacaa atgaataaat aaactccggt 60

tccggaaaaa gaatgctgtt aagagaatga aaagacaagc gacagactag gagaaaatat 120

ttataaaaac acctaactgt ataagggact ggtatccaaa acatacaaag tgttcttaca 180

gctcag 186

<210> 30
<211> 692
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (228)..(305)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (580)..(580)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (587)..(587)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (655)..(655)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (658)..(658)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (677)..(677)
<223> a, c, g or t

<400> 30
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catagcagtt tttaatttta atgaagtcta ccttatcaat ttttctttca tgaattatgc 180

ttttggtgtt ctatctgaaa actcattgca aaacacagtc acccaaannn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnncacat tctttgaatg ccaaacactg acaaggtaaa actaaagaga caatgagagg 360

atccctatta agtggtctcc ttatagaagt cacagtggct acgtgtggta tttccccaat 420

cagactcatc taacctttca aaattaaaca accaaagaaa tcaggaaatt ccaaagagtg 480

attttttctt ccaaggggga gaatccaaga agtgatactt tttacattcc tccaatttgt 540

ttggcctccc tatttatgga aaatatattt atagcagttn cattgcnaaa ttccctcaac 600

atcagtagga ggaaggcctt atcaaaagag cacaggctgg gcgatgtcaa aaggnggnag 660

tgatgatgaa tagtacnaaa tgctccttaa ac 692

<210> 31
<211> 530
<212> DNA
<213> Homo sapien

<400> 31
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tgaagagaga gaggtttggt ggaacactat tcccaccttt tccacacaaa cacaaattca 120

accctatttt ttagtgtaat atttgtattc ttcctaagtt ttttttggtt tggttggttg 180

gttggtttag tttggtttct gataaagtgt ttcaaggcca aaatgtttga agactactgt 240

tttaatgttt tattaactag ttataactag tttaataact ggtttattag cagcctggtt 300

tatttgcaga attcctgttt aagatagtat atacctctaa tccaaaagct atccattgta 360

tggaatatat agccttccca gttttttttt ttttagcttc attcatgcat gcctgcctgc 420

atgtatacta gactcaggac ccctaatcca aaaactatcc attgtataga atgtgtagtc 480

ttccaatttt tttgtacctc ggccatactg catctgcagc acactgcgcc 530

<210> 32
<211> 663
<212> DNA
<213> Homo sapien

<400> 32
actaaatgtt aatcggcaac catcaagcat aactggttaa gaatggaaga agggtaaagg 60

ttgtgtgggg ctacattgat ttcaatcaag gtaatgaaac aagcaaaaaa aaaaaaaaaa 120

aggaaagaaa gaaagaaaaa gaaagagaga gagagaggga gggaggaggg agggaggaaa 180

aaagagagag ggggccggta gacagaaggc aaattctatt ggtgggggag acgggcaagt 240

taaaacaaac acgggggttg ttagttatat aacccgtgaa tactatggga gcatatacta 300

ggggttctta acatacatga agatatcagt atctatacag attttcactg agtgacatgc 360

ccttgaactt aatgggtcac aactagtcct tcatttactc ccaccaaata tccatttata 420

gtgccactcc taatgtacat aattaatgtg aaagtgaccc tactttataa gtttttttatg 480

cagacaaaca aaattcagct actgaattac tctgatgcca tcaacaaatg gtgataacag 540

ccaagtaggc agatgtttaa ttaccctaaa catgttgtaa acaggcttca cttggcttgg 600

tgtttctatg tttgattttg aggtatttta agaatgtcac tagccatgct acgtccagta 660

agt 663

<210> 33
<211> 694
<212> DNA
<213> Homo sapien

<400> 33
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ttaatggatc cttttatttc caggggagca gagtgataaa agtctatttc tgtgatactc 120

attattttgc ttcttatttg tttaacactt tattttaaaa aaatcaaaag cagtttttga 180

aagaactaca gacagacttc ttggccccta aatacatcaa tgaatcaatg cctagaactg 240

gatttcttat aaaatataaa ttggcgttta ttgccacaga ggctaaacta taacaaaaaa 300

tgaaagaggg tgggaaaaaa aaacagtttc aaagaaagtg aaggcaaata acagacattg 360

ttgggtaaac acattattgc tactaagctt tctacaatcc acctttaag aaaaatgtta 420

tattttcatt tgtcacatca aatgcatttt tttttaacaa tgttggcttt catcaaaaga 480

aacacctcag actgatcaag actcagctcc atactaattc agttcctggc ttctgcagaa 540

actgaatata tcttcgatgt gtattccaga aaaaacaggc cattttatcc aagaccaaga 600

gcaccccaca aaaaaacaaa agcaaaggga aatttctttt gtttttgtaa gtcaattcaa 660

gacgagaaat aatatgcctg catatggctt tagc 694

<210> 34
<211> 564
<212> DNA
<213> Homo sapien

<400> 34
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atctagaaat cctttgacct atagtctata cgtagaacat atatgtgtcc ataatttgca 120

cacatacagt gagtattaaa tagcaaaact agattacttt attctgaaat acaccttcat 180

tgagagttaa agtattaata attccacatt tatgtttcag aagaaatcaa gaggttcaca 240

aatatccctt aagaaatatt ttactactta tttcttctca caaatttgtc acatggaact 300

gtgcattatc attcatatga attcacaatt tataacctat ttgctctaaa gaattcatta 360

caatttacgg tatgaatgga aactaaacat agagaaagtg cctaaacact acacattgat 420

tcaatggata aatttttttat tataaaataa attattcagt tcatggtttc tgacaaaaat 480

cagatcctcg ctatcatata tatattaaat acactattaa aatccaacat gccatgtaat 540

gtattcattc tggattccaa cagt 564

<210> 35
<211> 639
<212> DNA
<213> Homo sapien

<400> 35
cgattgtaac cgctcatatg ggcaatgggc cttcaagagc agctcgccgc cccccgtgtg 60

atgatatcgc cagattcggc tttcgagcgc ccccccgcgc agtaactatg gtatctttta 120

tgatcagttt atagtaaacc cttgcataat ttgttgacaa attttctaat gcttcaaaat 180

gtttggcttt caaagtttta attaacataa ttaaataaaa tgccattctt tgacaatcct 240

atgcttagaa atggttacta ttcccacaac tgaactgtct tgggccaatg ccaccatcta 300

gtggctaatg cccagaatca cacctctgtt tctcctttta tacctttgct ggaaattcat 360

atgcatggtt tctgtttttt agagtggtga ccaacttaga cttagagaat ttcatgtcac 420

tggtagttct agccctttta ttcattctct tctaatttta tcctttattt ctctattttt 480

atttgcaact caacaagatt tccatgtcag agctaacata ttttgtgaat aatttaatca 540

attagttttg aagtaaaatt agatgttgta aaatggctct gaacttgtta aactccttga 600

aggccctcag ttatttccta tagtatctcc atttctggt 639

<210> 36
<211> 871
<212> DNA
<213> Homo sapien

<400> 36
ctttccagaa ggtgtggcaa ccaagttcat gagacaaatc cattagaaat gttgaggttg 60

gacaatacat tagaggaaat tatatttaag ctggtccctg gactacgaga acaagaactt 120

gagcgtgaat ctgaattttg gaagaaaaat aagcctcaag aaaatggaca agatgatact 180

tcaaaagctg acaaaccgaa agtagatgaa gaaggtgatg aaaatgaaga tgataaagat 240

tatcacagaa gtgacccaca aattgctatc tgtctagatt gtttacgaaa taatgggcaa 300

tcaggggaca atgtagtaaa ggtgagtgaa caagtactat ggtatctttt atgatcagtt 360

tatagtaaac ccttgcataa tttgttgaca aattttctaa tgcttcaaaa tgtttggctt 420

tcaaagtttt aattaacata attaaataaa atgccattct ttgacaatcc tatgcttaga 480

aatggttact attcccacaa ctgaactgtc ttgggccaat gccaccatct agtggctaat 540

gcccagaatc acacctctgt ttctcctttt ataccttttgc tggaaattca tatgcatggt 600

ttctgttttt tagagtggtg accaacttag acttagagaa tttcatgtca ctggtagttc 660

tagccctttt attcattctc ttctaatttt atcctttatt tctctatttt tatttgcaac 720

tcaacaagat ttccatgtca gagctaacat attttgtgaa taatttaatc caattagttt 780

tgaagtaaaa ttagatgttg taaaatggct ctgaacttgt taaactcctt gaaggccctc 840

agttatttcc tatagtatct ccatttctgg t 871

<210> 37
<211> 188
<212> DNA
<213> Homo sapien

<400> 37
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atccaataat acaacgagtg taaatttttg ttcctcagaa aaatccatct ctataacacc 120

ggtgggttcc agccgcagtt atattccacc attggccaag gtgaggctca taaaattgtg 180

gggtgggg 188

<210> 38
<211> 419
<212> DNA
<213> Homo sapien

<400> 38
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tattcaattt atgatacttt ggactaaagc aggtcagttc tctaacaaga cgtagaactt 120

cttatcatgt atgcacctaa tactataaga ttgcataaaa atatgttgag caaaaactga 180

aagaactgca aggacaaata gaagaatcta ttgtaataat tggatacttc atcacccctt 240

taccaaaaac ggacaaagtg agcagggaga aaatttgtga ggacatagct gaactcaata 300

gcaccatccc accattggca tctacaggct acttcatcca acagcagagt acctgcccaa 360

gccgaattgc agcacactgc gcgcgtatta gtgaatggag ctcgtacacg cttggattc 419

<210> 39
<211> 358
<212> DNA
<213> Homo sapien

<400> 39
ggtacctctt actcagtgat cttcccctct tgcaggagtg atctcctctc cagtttctgc 60

ctgcttttgt tatgctccca atgtctttaa gaaggtatca tcattataat tatagcttat 120

cttggtatca atggaaggtt aatctgacat aatgttttct ttcattatca gaaccatacc 180

tattctgaat gaaattaaac cctcaaaatg attcaaactt atctctgtag ttcactacct 240

aaaccactgt gaaactgaca ctgagcacaa tacatttagt gtctagggaa cagtttcctg 300

agattaaact ctctttcttt tcacaacagc atatctaatt caatatcgca acaaatgt 358

<210> 40
<211> 421
<212> DNA
<213> Homo sapien

<400> 40
actcaaggag gttattttag tggaagcagg ctggtggtat gggacagata aagtcactgg 60

ggtcagatga ccaaatgact aggtccatct gtaagaccat tctaaacttt ggggaatctt 120

tccccatttt tactgcctgg attccatgag ggtcagttat caggtctttc ttttataaag 180

gaagttcaat atattcttgt atagggtaat actttgttgt ataggtttct aatagttaat 240

ctgtgctgag gctggccttg tttcctaata gaatcccagg gccaaggtta aaaatcctca 300

ggccaagtta catcatactg ctgacatata gtattggccc tgcaagatat ttaactgggt 360

cttacggcta ccatttatag ccacgctaag tctcttagag tatactacaa gcggacaatg 420

t 421

<210> 41
<211> 201
<212> DNA
<213> Homo sapien

<400> 41
aaaaaaaacg aaataaaaag acaaccaatt ctcctcttgt gttcttttcc attgaagaac 60

gcaaagaaag gcagtgacgg gcagggattt gacgttggct tgatagttgg cagcttattg 120

ggcttgctcc aattgaccaa gggactcatt aggcaaggag gctcctcttt cgtgcctaca 180

ttcttccacc ccagggaagg t 201

<210> 42
<211> 814
<212> DNA
<213> Homo sapien

<400> 42
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gttgcacatt cctgtagtcc caggctatgc cagaggttga gaagcaggga ttacttgcag 120

cccaagaggt caagtctacc ttgggcaaca tagtgagaca cagtatctaa aataataata 180

ataataaaag ttcagtgaga tacgagagaa cacatgataa acaacacaaa gaaatcaata 240

aaagaaattc agaatataaa tgtgaaattt accaaagaaa ttggtataat aatatagaac 300

aaaaaagaaa ttctacaact aaagaattca ttgaatgaaa gaaagtaaat attgttgaaa 360

gttttgacca tagactaggc caagtagaat aaagaatttc aggaatttaa tgtaggtctt 420

ttgaaataac ccagtcagat aaacatattt ttaagaattt tttttaaaaa gagaacaaaa 480

cctatgtggc atataggaaa cataaagcaa ccaaatattc aggttttcaa tgtctcagaa 540

ggtgacgagg acaccaaaag tggtagaaaa ccttattaac agacacaata acccgaaaat 600

gtcttggaat tgtagcaaaa agatgcagac ctcccagtta cagggaaact tcagaaataa 660

tagatccaat ttccaaagat cttcttccca ttgattttcc ttacattttc caaggccaat 720

tagagagatc ttaaacacaa aaaaaggtct ttcctttagg gatccctaat aagggtttct 780

ccaacttcga aacaggtttt tctctctgca aaaa 814

<210> 43
<211> 1205
<212> DNA
<213> Homo sapien

<400> 43
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ggaaagacct ttttttgtgt ttaagatctc tctaattggc cttggaaaat gtaaggaaaa 120

tcaatgggaa gaagatcttt ggaaattgga tctattattt ctgaagtttc cctgtaactg 180

ggaggtctgc atctttttgc tacaattcca agacattttc gggttattgt gtctgttaat 240

aaggttttct accacttttg gtgtcctcgt caccttctga gacattgaaa acctgaatat 300

ttggttgctt tatgtttcct atatgccaca taggttttgt tctcttttta aaaaaaattc 360

ttaaaaatat gtttatctga ctgggttatt tcaaaagacc tacattaaat tcctgaaatt 420

ctttattcta cttggcctag tctatggtca aaactttcaa caatatttac tttctttcat 480

tcaatgaatt ctttagttgt agaatttctt ttttgttcta tattattata ccaatttctt 540

tggtaaattt cacatttata ttctgaattt cttttattga tttctttgtg ttgtttatca 600

tgtgttctct cgtatctcac tgaactttta ttattattat tattttagat actgtgtctc 660

actatgttgc ccaaggtggt cttgaactcc tgggctcaag caatcctccc acctcagcct 720

cccatgtagc tgggactaca ggcatgtacc tatgcttggt ctttagtgcc ttaatattaa 780

atttacacac agcttctgag acagtgcttc ttaataacac agagttgcgt ggcatgtact 840

taaacagtaa ctttaggttc acacagtaaa taaaatctca caatgccaaa attttgaaaa 900

taggactaaa acaaggtaga tgtgtgtagt ttcaaaagtc tcaccactga actcatccta 960

tgcaaattcc taacccaatc atgctgtttc caatagggtc cacgacactt ctcatgtcca 1020

ttagatgatg caaaaaagga ccaaatggct aacactccct tattttcaac aagaagtaca 1080

gttcttaaat gataggaatc tgttgtgact atgcctctgc aggtgtcaat tatctgaaat 1140

cccctcaatt tagtacgtat tatgagctaa caaatatttt tgttttacat cagtcttaat 1200

agtcc 1205

<210> 44
<211> 770
<212> DNA
<213> Homo sapien

<400> 44
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atattccaga aacctacatt tctcattaag tagatagtat catggacttg agaacacatt 120

ttctggacca aataaatctg gaaaatgcta ttcttatgcc atcatattta agaacagtaa 180

tatatcattt taatagcttc tctgccatgt cacacatggg gaggacaaaa catcttttaa 240

ctaacaaaag agattcagag aggaaactaa aatcagagat cttggtagaa aaacatagca 300

aaaggatata aattatcgta aaaggttatt gttttattca aatagacaat ttacataaat 360

gaccagctgt atacttgaag ctagtggcaa cacatgtaaa agcctgcaaa accaattcca 420

gagatgaaat caattatgct gaagagccac aatactctta tagagcaatc aattatgctg 480

caaatttata ctttcaacta ctgactcaaa aaactgggac agtcctgtta catgagaaca 540

gctaattgta aaaaaagtga atctgatcac tttaatgatt ctacctattc ttatattaaa 600

ttttgtataa aaccactgaa aattggactt tttatgaaga aaagtgttcc ctgaacaaac 660

catgctttct cttttggccc tttggcctag caatggtgct accacatccc ggacacatac 720

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<210> 45
<211> 614
<212> DNA
<213> Homo sapien

<400> 45
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gtttaaaaac caatacttca caaaatgtgt atgctcttta tgtgtgtgtg tttggggcag 120

tccctccctt tagttcatag tagagttccc ttttgaatgc tgccgcccac ctttagcttt 180

attaaggggg cacaaggaag gaggattttg tcttttccat acttgggcca aaatttagg 240

tggaagaggt aaatctttag ggacaaatat ggtcacggca ataggatgca aaggagagaa 300

gctggcaaga gagaaaagga aattcagaga accagattag gataaaagtt ttcagttgag 360

ccctccgtct tggagagaaa atatctgaaa cttgtatttg ctcaaacgct ggaagccatt 420

ctatgcctgg gggagaggag aagagttcag tgttccagat gactggcaag gcttgaatgt 480

caagccttgc tgcaacacag acccggaaac cttgggagtt cccatcggcg gtggtccaga 540

gaagataccg taatgtcaca ttacatctta ttgtcacctg ctctgtaaac cgaattgcca 600

gcacactggc gccc 614

<210> 46
<211> 656
<212> DNA
<213> Homo sapien

<400> 46
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ctggaggtta acgtgtttgg gggagaaagt tccaggtttc tgggtcataa ggtggaattc 120

aaaaaatttt cccgattgac gacttgattg aaagagtgtt attctataag ccctgaaatc 180

catagaatag gagcgtctgg gttaaagaat aaaggggttg tggagaccac aaagttcctt 240

aattaatgca gaatgaaagc ctccaaggta aacaaggaat tcagaagaga aataagaatt 300

gtaaaatgtt ttcttgtcaa agaacttata aaaagctgtc agaaactctt aggtttaaat 360

tcctcgtcct cgagtcacgg agtgaagatc ctggagaaag ggagaaagga gttctttcta 420

ttcagataat gtagacattt tttttcacat aagaagacag cctttgtaaa ggtcaatgtt 480

caaaaataat gtcacaagaa aatataaatt ttatgggttc aaaataacct tggagatttc 540

ttttaagggc ctgctattct gtcaagtgat gcttataact agagttaggc tggaaatttg 600

gtatcttttt ttttttttt tgaaacagag tcttgctctg tcacccaggg tggagt 656

<210> 47
<211> 550
<212> DNA
<213> Homo sapien

<400> 47
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gtgtgtgtgt gtgtgtgtgt gtgagagaga gaggctcatc tctgttgccc aactgctgga 120

gtgcagtgcg cccaactctt actctcacta gtaaccctca actgctccgt ggacccaact 180

gactattcct tcctgtccat cacgtcctcc caatagtatg cttgagttat tatactgcta 240

gcacaaccaa ccatcattgt gtgctatatt ctttaacata ttgtggtggt agtaataaga 300

ggatcgtctc atctagtgtt cgcctaggtg ctagcgtact aagaatctcg ttggatctca 360

gatgtgactc ctacccattg agggcctccc aagatgtgcc agataattac atgtatgaga 420

cgccagtgca cccagaccat aacccaacat ttttaacatg tgcatataac aactacctaa 480

tatctaatat gtcacaattt tcaatctctt ttcttttaac caatttcaac ccagaaaact 540

ccaaagaagt 550

<210> 48
<211> 384
<212> DNA
<213> Homo sapien

<400> 48
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cctccaaagg gtcttgttta aggactatgg cagaccccaa gactggttca taatctaggg 120

tggaccaagg gggctagccc aaaagggaag ctaagtgtta tgactagatt gaaactctgg 180

tgccagctat tttaggtttt cacatacaat tctttatata actggtaaac cataaactgg 240

cttccccttt ggtggatata cttttaagta tttctgggat gtgtttatat ggcagttagc 300

tgaaagtcag cagtcagcta aaatcttgta atcaaataat gcacaaggta gtgatattta 360

cttgaaatag tagtacctgc ccaa 384

<210> 49
<211> 327
<212> DNA
<213> Homo sapien

<400> 49
acgtgaattt aagactaaat tttctttttg gccatgttta ttctttccat atattctgat 60

ttataatgtc ttttattatt gtcattttat ccatattggg cactattggt ttttatttt 120

atttgaatcc agtgattctg gtgattgatt ttttgtaatg aaagtattaa aataccagtt 180

gataacatct tagatatttt ctttttgatt tttgtttcca gctctgttaa taatttctaa 240

ttttgctcct attgtaaaca gagaatactg gccatgcaat tacttcattt ttttgtcatt 300

tattaaatat tcatttctaa ttgtagt 327

<210> 50
<211> 485
<212> DNA
<213> Homo sapien

<400> 50
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ggaccgggca aaactggggg gccctcctcc gcgcgggaag gacctggggg cgggattaca 120

tcagggatgg ggcgtggcca aaaccagagg aagggctggt gtgtggccac agttttgggg 180

atgggtgctg tgtctctcac cacccctcct tttgctggtc aagaatgtat ctgcttttct 240

ggagcaaggc ccagaccttg ccgctttcgc tgtgaattct ggcctctggg caggcccccct 300

ggaggcagaa cctgcttttt tgggcactgt ttgctgaaca gggcacagat ggccatgtga 360

cctctgaaat tataaatata aagttaaaaa acaaaaaaaa ccttcactaa acacaaaagg 420

ctcccgagaa tcaaattttc cagggaatgt ggaaggtgtg ccactcccgg gaaaatttta 480

atgtc 485

<210> 51
<211> 431
<212> DNA
<213> Homo sapien

<400> 51
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cccattacag ctggcagaaa ttccccagct gcaaatgggt tgcatttatc tgttacccat 120

tcctgatttg cagcacgatt agactgtttc cttttctgcg tggtctatgt gtcactccat 180

gagaatctgg gagaggagaa ctcgatatgg tgctcattcc atcattttaa ccatagtgtt 240

ctttattgtg aagaggtatc ccggttagag tggagtcaaa gctttatagc aagtgtattt 300

caggtaacta ttcttttact tgtttcagat ctatttcagt agcacagcgc accaagatag 360

aacacttata agcccttatt ttggtataga tcaccagaga aaccactcac cactcgcaca 420

tggccttcag t 431

<210> 52
<211> 605
<212> DNA
<213> Homo sapien

<400> 52
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ccgccgcgag gcacacaaat gggtcgccca tcatcgggaa ggacgttcag attgctttca 120

actttggctc ttatgaataa tgcttctatg aataatcaca tacaagtatt tttggggaaa 180

aaaaaagtta tttctcttga gtaaatatct aggagtagaa aaacaatttg tgatcaatat 240

ggaaattaaa attgtattct actagatata cactttgtga tcaatatgga aattaaaatt 300

gtattctact agaaaaacaa tttgtgatca atagggaaat taaaattgta tactactaat 360

attctatatt gatcacattc cttagcttag agcttgactt tagttgatga ttctaattta 420

gaaacaattt tggttttgga attgggtaat tttaagggaa ttaacaaggt ttgaaaatta 480

tacgttttat tggatttttt ttttttttg agacagagtc tcgctctgtt gcccaggcgg 540

gagaacctgc ccgggggggc ggccgaaagc cgaattctgg ggatatccac cacactgggg 600

gccgg 605

<210> 53
<211> 425
<212> DNA
<213> Homo sapien

<400> 53
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tgttcaattc tcctacattc attattatta aaatatatgc atttagtcct aatcaaagat 120

aatcagcatt cttccccaca tttatagtaa acataatttt tatataaaat atttgtaagt 180

attggcagca tgcacaagca gcatgtgctt tttgtcatac attctcacag ttggtaaatt 240

aaaatcaaga tagatctatg ggactctata tcattaagat tactcaaggt ctgaaaaaca 300

ccttaaaccc ttggtttctc ctttcagtga ttaagcatag tctttctaaa ttagcttgtg 360

taaatgcaat caatattttt caattcaaat gctattaaaa taatatctgt attcaaaaca 420

atggt 425

<210> 54
<211> 482
<212> DNA
<213> Homo sapien

<400> 54
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atttatgaat atttccattt tccaaattgg tttgtcagcc actttctcta ggaaacaaat 120

tagggtttgc acaaacaatt tgcttaccca gcttactaat gtgtagaacc atttaccccg 180

tgcagtgcac atcaattgat ggcctaaagc cacaatcagg ggtgactgct tctctgacca 240

aaaacaaata aaggtaagaa tgtataataa atcctaatca tatttttttc cgacaatatc 300

cccacaacct cagaatggtc tgctgcagag aaccttggtt tctgtatcag actaatgtct 360

aaaaaaactg attctaaaaa tataggcttt tgcaagtcaa agatataaga taggaataaa 420

ttttttttttt ttcctttttgg agacaagttc tcactctgtc acccaggctg gagtgcagca 480

gt 482

<210> 55
<211> 836
<212> DNA
<213> Homo sapien

<400> 55
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atttatgaat atttccattt tccaaattgg tttgtcagcc actttctcta ggaaacaaat 120

tagggtttgc acaaacaatt tgcttaccca gcttactaat gtgtagaacc atttacccca 180

tgcagtgcac atcaattgat ggcctaaagc cacaatcagg ggtgactgct tctctgacca 240

aaaacaaata aaggtaagaa tgtataataa atcctaatca tatttttttc cgacaatatc 300

cccacaacct cagaatggtc tgctgcagag aaccttggtt tctgtatcag actaatgtct 360

aaaaaaactg attctaaaaa tataggcttt tgcaagtcaa agatataaga taggaataaa 420

ttttttttttt ttccttttttg agacaagttc tcactctgtc acccaggctg gagtgcagac 480

tgagacctgt ctcaaaagaa agtgaaaaca attcttacct tgtgggcctt aaaaaagcag 540

gcagcaggct ggatttggca tgcaagccgg tttgctgacc tctgctctac acttgggttt 600

tttgtctttt ttttcccctt tttgtggaga aaggggggctc gctgtattgc ctgagcagat 660

ctcaaactcc tgggctctag ctatcctctg gcctctgctc cctaagtgct gggattacag 720

gtgacctctg cgctaaacag ttggtatgcc ccatcacatc acagccttac atttccatac 780

ttttgatcat gttgtcccct gggtctagat caccctgagg gttccctggg ccctgc 836

<210> 56
<211> 824
<212> DNA
<213> Homo sapien

<400> 56
cgccagtgtg ctgccatgcg ggatacgaag atcttaatat taagtcttgc aatccatgaa 60

gcatgaattg tagttttcta ttatttgtct ctttgatttt ttctgcaata ttttatactt 120

ttcagttagt catattttct ataaatttaa agaaaagaaa ttaatagtat atgcactctc 180

atttttacta ttttatctta tatcagtata tagtcttcat tacctattac tatatccaag 240

tatttctatt atctattttg tctagaagaa ctttaacgtt tcttgtagta gaaggtttga 300

gaattagatc agagtacctg gaagccaagt agaatagaag tatatcaaga agataggaag 360

tagctacaac ctatgctaga tcggtagaag aaataggagg aataaagaat tagaccctat 420

agatttcaat aacttgtagt atagaagtac ttttctgata gaaaacaaat gattatttag 480

tcaaaggaat tcgcaaaagg aaaattcagt atcagccata cctatttgga tctacatgga 540

tattctaaat attgaccaag aggtaattgt acagagtagg catagaaggt tcattacagt 600

agtagtagta taatagtaaa aaatgtaatg tatgtaacta cttgtataga gtaaggaaat 660

tatgggatga agtgaactgt agcccttaaa aatgaaaacg tagaactaca atgatgtgga 720

aagatgtgca tgacacatgg aaaaaacagt taaccgaaga gcatgtttta aacaattttc 780

acttacatat atgcagtttt cagtctgtgt acctcggcca agcc 824

<210> 57
<211> 675
<212> DNA
<213> Homo sapien

<400> 57
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ccccttgccc aaaggaagaa agagctaatc acaggagatg ttccaagaat gcctaaagta 120

tcataatgaa tagttctact aatgtccact tgttcaatgg aaagtatgga cctcttagat 180

tcgcttccaa attcctccca aaatgactgt caatactctt gttattgaac ctggaaaaaa 240

aagtttctaa tatattattg atcacttatc aattccccaa actgacgaca gcagttctta 300

gattgaactg ttaaaccttg ttcatcatga ttatgaactg aatgattgta tgcagtttat 360

gggttttatg tctgcagtca ttccttcatt tttccataga aatgatataa acaatgatga 420

tgtaatttaa attttattca attatttatg ggttttatgt ctgcagtcat tccttcattt 480

tcccatagaa atgatataaa caatgatgat gtaatttaaa ttttattcaa tttactggat 540

tttaaatgtt ttctacatgg agaccatgaa gaggaactat gttcagagaa aatgtctaca 600

aagcaggacc atggccaacc acttttcatc taacccaatt cactaaaagt acctcgcacg 660

cgaccacgct aagcc 675

<210> 58
<211> 596
<212> DNA
<213> Homo sapien

<400> 58
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ggttttaaac ccccttgggg ggggtcagtc ccttcccttt gggctgcaag atttaatgat 120

atagggggtc ctccagagtg gggggagagg gggggggcg tctccattat atgcccccca 180

ggtgttagga gaggggtcct ccatacaata agagattttc cggtttcaga aggagaagcg 240

ctccccaaat ccgtggaaaa tttttaaaat atacgcgggg ggtgagaaaa atgtgaggtg 300

aacccttacg agagtgaggg gaatatccac gaggggggg taggccactg cgggggatag 360

cccggagaaa gggcgggggg acatccggga aatagccgga aaaacgtggt gggggcgaaa 420

acgggttaaa tttaaccgcc ggagaaaata tagtatatgg gaacggggat gttgcggcgc 480

aaggtttggg cccaatgggg tgttcccccc gaagaatgtg gggaaccccc gggaagatga 540

aaggcgccca tattaggggg ggaaaaacag cgccccaaat ggtagggagc attctg 596

<210> 59
<211> 813
<212> DNA
<213> Homo sapien

<400> 59
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tttattaaac ccatttatct tttgtgagag atcataaaca cctaatccag gaagggactg 120

gggaacaagc aggcactgta tggagggcag acaggcccaa acccaggtct tccgtctctg 180

cagggagcac aatgtgtgca aacatatcaa gaaaagttga cattgttaca gacactgcca 240

gaggtaagga gaaaaaaatc aacatctggt aaaagccatc ccaaagcttt gcacacacac 300

caaaaaaaaa ggttgattgg tggaaatgta gctactaata ataaactggg ctcctaatta 360

acaggatatc actatggcta aggataaagc tgaattgagg cgtatatatt actgatgaag 420

tatttgtgtg gtttgctagt tgtctccatg catgattatt gctgacctat ctcaggacag 480

cacatatgac ttcctaagaa taccactacc tagcctactc attcagtgga tgtgacatga 540

agtttccagg accagtagaa ttataatggg atatgaatat aatcttcgga gctctgtttc 600

gatgaagtat ttgggtagtt cttagaagaa tattctaaat atgtcacatt catgcctagt 660

ttttcagtgc cccaatttgt gaattcttaa agagggcatc ttgtcgtagt ctgttagcgt 720

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cacagctctg cagcctgtaa cccgatgggc aga 813

<210> 60
<211> 1220
<212> DNA
<213> Homo sapien

<400> 60
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tttattaaac ccatttatct tttgtgagag atcataaaca cctaatccag gaagggactg 120

gggaacaagc aggcactgta tggagggcag acaggcccaa acccaggtct tccgtctctg 180

cagggagcac aatgtgtgca aacatatcaa gaaaagttga cattgttaca gacactgcca 240

gaggtaagga gaaaaaaatc aacatctggt aaaagccatc ccaaagcttt gcacacacac 300

caaaaaaaaa ggttgattgg tggaaatgta gctactaata ataaactggg ctcctaatta 360

acaggatatc actatggcta aggataaagc tgaattgagg cgtatatatt actgatgaag 420

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cacatatgac ttcctaagaa taccactacc tagcctactc attcagtgga tgtgacatga 540

agtttccagg accagtagaa ttataatggg atatgaatat aatcttcgga gctctgtttc 600

gatgaagtat ttgggtagtt cttagaagaa tattctaaat atgtcacatt catgcctagt 660

ttttcagtgc cccaatttgt gaattcttaa agagggcatc ttgtcgtagt ctgttagcgt 720

tgctgcaaac gcactacctg aggctgagta atttgtaaag gaaagaggtt tatttggctc 780

acatttctgc ctggcagtgg ctatagttgg cttctagtga ggcttcagga agcttttact 840

catggtagaa ggcaaggggg ggcgcaggca tgtcacatag caagaggagg agtgagagag 900

agaaggaggt gccaggctcc tttaaattgt aaactaacag caagaactca ctcattccca 960

tgaggaaggg accaggccat tcatgaggga tcctccctca tgacccaaac accccgacta 1020

ggccctacct ccaattctga ggatcacatt ccaacataag attcagagag tgaaaacatt 1080

caaagtctac caggaggtga ttaaagtgat atgacaatgt gaggtatatg ttacctggaa 1140

ggtagtagga gcagatggtg ggaagaagac aagtgtagca actacccagt cctctgcatg 1200

aaagagccct cctcaaagag 1220

<210> 61
<211> 347
<212> DNA
<213> Homo sapien

<400> 61
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cgaaagtata taatttaagg ttttatatta tggtatacac tccatggaaa ccacttaaaa 120

ttggggaata tatccatcac tactccccca aaattttcct catgaattcc tttgtaattt 180

cattaccttt cttccccatc tccaggaccc ttgcatcctc aggtaaccac ggatctgcct 240

tctctctata tagataggtt tgcattttct agaattttat ataaatggaa ttacagatta 300

tgtgcccttt tcttgtctta gttctttact cacaataatt cggggaa 347

<210> 62
<211> 470
<212> DNA
<213> Homo sapien

<400> 62
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ccgagtatat taactcatct gttaattttt gacacatcat tgatttattt atttagaaaa 120

attccatcct gttttgctgt gttgatgttt gccattatga aaaaaattgg atggcatttt 180

ttaaaaaaga catagttcat tgatttaaga caagggtggt gcttccaaag atgctttgat 240

tttctaactt ctatttttcta tgccatgaag ccctctttta aaaataagtt aaattaatgt 300

tttaaggaaa tcatctattt tgaactagtt agaaatcgtt gggtagatat aacatatgaa 360

tacatgatag taggtcacta aaaaaaattt ctgcttactg cattttttaat cattaatata 420

tttcacccct tcgctgggct aaaatcaaaa ggttaccact aatcttgaca 470

<210> 63
<211> 688
<212> DNA
<213> Homo sapien

<400> 63
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tccctaaatg ttgatgatgt catttttttct acattcaact gcatctctgc tgctttattt 120

atgtatttag gcctaataca atgactgggt tatctttaaa aactcgctgg tttccaaaaa 180

atataggtat tccccttttа atttcatgct tcttttcccc aaattttgat acaacatttt 240

agggggaaaa taaaaagggt gtgataaaat gggaaaaaga gaatgcccct gctcagaaaa 300

ataattttag gggaaaaata aaataagggt gataatgaaa gaaagagatg caccttgctc 360

cagacattgt tattaagcgc ctattttaag gttttctcta atattttccc tcttaccccc 420

tagtgtgtgg ccccatgggg acccacgcaa acccggtaaa aaaaaccgaa acctagccct 480

gttttaattt ttctttttttt ttttttttttt ttgagacgga gtcttactct gtcacccagg 540

ctggagtgca gtggtcgcaa ttccggtcca catttttga cctgccaaag cgaattccca 600

gcaaatgggg ggcgaaatat ggtccgactc gtcacagctg gggtaccaga caaagcgtcc 660

tgttgaatgt tccgtcatca aatagtca 688

<210> 64
<211> 807
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (125)..(125)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (133)..(133)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (135)..(135)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (137)..(137)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (139)..(140)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (142)..(142)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (145)..(145)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (147)..(147)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (150)..(150)
<223> a, c, g or t

<220>
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<222> (155)..(155)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (159)..(159)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (163)..(163)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (165)..(166)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (178)..(178)
<223> a, c, g or t

<220>
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<223> a, c, g or t

<220>
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<222> (358)..(358)
<223> a, c, g or t

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<213> Homo sapien

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aagtgaacta atatcgttat catatcgtca attcaagcat gttaaaaaaa gctaaacgaa 180

caaactaccc aagagtgaaa gacacagcgt cagtaccaga actccagcca tttagaggca 240

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<210> 66
<211> 898
<212> DNA
<213> Homo sapien

<400> 66
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<213> Homo sapien

<400> 67
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<211> 3809
<212> DNA
<213> Homo sapien

<400> 68
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<223> a, c, g or t

<400> 69
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<213> Homo sapien

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<211> 715
<212> DNA
<213> Homo sapien

<400> 71
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<211> 324
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<213> Homo sapien

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acacttaata cgatggcgga cgcg 324

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<211> 751
<212> DNA
<213> Homo sapien

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aaacaagata gtagagaata ataaagaaca gatgaggccg aagacgaggc aaataaagag 660

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<211> 186
<212> DNA
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caaaca 186

<210> 75
<211> 569
<212> DNA
<213> Homo sapien

<400> 75
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agaaaaggag tttgagctca ccctttata 569

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<211> 255
<212> DNA
<213> Homo sapien

<400> 76
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<212> DNA
<213> Homo sapien

<400> 77
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<211> 392
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<213> Homo sapien

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<212> DNA
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<400> 79
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<211> 513
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<400> 80
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<210> 81
<211> 141
<212> DNA
<213> Homo sapien

<400> 81
cacctgtaat ttacaataag gagtgcattt aattgggttc atcagtagtg tggacattga 60

ccaagaaaag aatcagaaaa cttgaaatag gttcataaaa tccccaaaaa aaagcaagac 120

ccaaaaaaaa aaaaaatttg g 141

<210> 82
<211> 631
<212> DNA
<213> Homo sapien

<400> 82
agaaaaacca cagcaagagt taagggcttt tcaaagagtt actttagaca atatatctgc 60

aaaagtgaca agaggaacag gaagaaggtc atggagtgaa tgggacaaaa acagaaagca 120

gagacgttac gattacacaa aaactaccta tgactaggac tggtaaaata gtctatggaa 180

tgatgtctag gaatatactt tgtaaatgat aaagcacgct tgaaatattt attatcatta 240

ctctacactg ggagaaataa tggaatttag agaaatgatt ttggaggtct aaatccaagg 300

cctaagagaa taaaaatttg aaagagaaat aaagaagttt aaagtaatat cataaaactg 360

ctataatgac aaggcataag tgataaaaaa taggaaagaa aattataaaa atcaaaagtt 420

aaaaactgct caatatatta ggaagtataa aggtatttat tactttaagt taaaaaagat 480

aatatacctc tcttaggatg aatgaggaaa atatatggtg gtcacgtaac aaggttaaca 540

aataatttgt actgcccggg cggcgctcga aagccgaatt ccagcacact tcgggcgtta 600

tagtggatcg agctcggtac aagctggcgt a 631

<210> 83
<211> 486
<212> DNA

<213> Homo sapien

<400> 83
acatctgctg gcaacaaact ctcttagttt tccttaatct aagaatgcct tcatttcttc 60

tttaattcct gacagatatt gtcattggtt agaagattcg gagttgacaa ttctttgctt 120

ttaggatgtg aaaaatgctg tatcacttcc atttggcctc catagattca gatgagaaat 180

ctactgtcat ttgaattgtt ttatccttat aggtaagggt aatttctctg tcattgcttt 240

aaaattggtg tggtttttt tgttttttt atttttctg agattcgttc tcctgagtag 300

ttgggatgac aagcatttgc caaccatggc ctggctaatt ttttttgtat tttttgtaga 360

gacagggttt caccatgttg ctcagggtgg tctcaaactt ctgagctcaa gcaatcagcc 420

tcccaaggta tttggtatta caggagcaac ctatctcgcc cagcctaaaa ttgttttcgt 480

tagtgt 486

<210> 84
<211> 548
<212> DNA
<213> Homo sapien

<400> 84
tcagcaagct ataaatcctg tttaaatctg tcacgcgcat gtatgattat ctgaaatcgg 60

cttacgtgtt ccggcgagta ctttttttctt cttttaatca gatagctgat taacattgaa 120

acacaaagtc tcattctctc tctaattata ctattttatc tttccttgtc cttttgttat 180

tttccatata cattactact cctttaataa gaaagttttg cattcttaat ccactgatat 240

gtttttttccc aatctagctt agtcccatta atttttacttt cctttcctgt ttagagtaat 300

cagttactgg atctacctac tgtctaatgc atctgtcata ttaattgtct ataacttttg 360

ataaatcagt ataaagctga acattaacat aaatatgtcg ggagacaaac gtttacgttt 420

ctgaagactc tgcatgttta ataatataaa ccgatatcat ctctttttga tatatactca 480

gtagtggcat tgttagatta tagtggtagt tatattttta gttttctgag gccctcttta 540

ctagtttt 548

<210> 85
<211> 718
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (348)..(639)
<223> a, c, g or t

<400> 85
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agtcatgggc ccgcccagat ccaagggaaa gggagtccag gagtctgtgg tggcttgaac 120

ctctcacacc aactgattag tatccaggcc cacgctttag cacttatcag ttaaggtgtt 180

ctggcatccc cattttcttg gaggagacat tctcctatta ttgagagtta ggtagctcag 240

acaatcttct acggagatta tgacatgatt ggttgaacac aactagtctc cagtttcttt 300

ggagttttct ttttaggtat ataatgcaac gtaagtgtct cagggttnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna agaaaagaaa agaaaagaaa 660

aaaatgaata atcataaccc tacatacaaa agctaaaact ggcccatgcc tataatct 718

<210> 86
<211> 236
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (74)..(74)
<223> a, c, g or t

<400> 86
gcaggtacct ttctctttgt tatgtctcct tcctcggtgt taccagtaat gtgtagtttt 60

ataccatttg ttangttttc tcatagttct tgggctattt gggccctatt ttttctcaat 120

ctttttttcc ctttgctttt tagttttaaa agtttctgtt gtcatatcct caaactcgga 180

gatccttttt tcatttttt tttacctttt attttggaat tgggggtaaa ccgaac 236

<210> 87
<211> 587
<212> DNA
<213> Homo sapien

<400> 87
tttagaggta taccaacgat attgggggca acccaggttc cccacccgac gttaccacgc 60

gcccagtgat ttgaatcgct cattatggcc ataatggccc tctagagcaa gctcgacgcc 120

ccacagtgtg atgaattctc aagtattcgt cttagcgtgt ccccgcccga gttactatcc 180

caaacgctgg ctctgctcct tgtgtatatg ggtgacctcg acaaagtcaa tttcaaacta 240

tctcaagcac tcagtttcct caatttgtaa aatgaggata ataatgtga cctcacagct 300

cacaggctgt agtgaggatt ccacaagata ctgcatccaa atcactagtg tcctgctcac 360

ctcatagtag gcatctcgcc aaaatacaca acctatattt ttatcaccac cggactcata 420

cacatattgg attgtgagaa acattaaacg aagatagcat ccaataaaca ttggttatct 480

ttctaacacc ttttcccccc ttcccttac ttcaaatcac cctaaccatg atctccatct 540

taccacccac agagaagacc ctcaaagact ggcctttccc aaactgt 587

<210> 88
<211> 412
<212> DNA
<213> Homo sapien

<400> 88
aaaggaaaaa agagaaagta ccagtgagac gagctccatc gctaatacag gcgcagtgtg 60

ctggaatcgg ctttcgagcg gcgccgggca ggtgcactcc agccagggct aacataagtg 120

tagtgagact ctgtctcgaa aattaattaa ttaattgaat caatgtttaa atgtgataga 180

ataaatgaat aaaccttatt aagatctttt acaacattcg tataagattt tcttagtctt 240

aacattttaa ttgatgactt gatgtgaagc tatattttta aaattacaag attgccagtt 300

attgcaattg cacacatact gagacaatgt gcttatggat agataaaaat acaatgaata 360

aaagggacat tggtccaata ccaataaaac aaaatttaat atcactaaat gt 412

<210> 89
<211> 843
<212> DNA
<213> Homo sapien

<400> 89
gcatgttagc caactgtacg agtcggacca tataacgccg ccatgtgctg gaatcggatt 60

tcgagcggcg cccgggcagg tgcttattct cacagattat ttctttaaat agtcttaatg 120

cagacaaatt gatgattagt aagcccaaat aagtgataat acagaggtct ttgttatatt 180

tagcttttta ttcttccatg tgtccccgta ccatgccttc agaacttcaa ctcatatatc 240

atgtctatgt acagaagtaa aacaattatc agcgatgcaa actgaaaaag tctgtcaatc 300

atttgggtat gtttatgtta ttgcatattt gttatggata cccttgataa gcaaataatt 360

gtggtgcttt atttgttata atgcaaatat tagatatgta aatctagaaa tctttattta 420

atagctatgt gataagaaat ctcagttcag ctgtagacaa gaaaacaaat ctcaatacct 480

attatattac cataaagcta tttaatctac tatctttcat ctatttcaat gactagctat 540

aatatgttat agtcaaatct ggttacaagt agcctttttt acacattaaa tttgtgtcat 600

ctttcatctg acatattcaa cttataacgt gttatctttt gctgcaatcc taggcattcg 660

agatgcttta gttagaaaaa aggagatgca taacagtgtc taggaatact ggctcaatag 720

tgtacctcgg gcggaccacg ctaagcgaac tctggagata tcctaaactg ggcgcacaa 780

cttaattaag ggccgatcgc ctaatgagtc ctaccttcct ggcccgttac actagtggga 840

gcg 843

<210> 90
<211> 454
<212> DNA
<213> Homo sapien

<400> 90
acttaacagg caataactat tagcagaaat agtgcatatc taaaggttcc aacgattatt 60

ataaatcaaa aactaagcaa tctagaattt ctaaggcaat tatttaaaat atatagatac 120

taatttacac attaaatgtt cccttagtta tttgtgaagt catttacaat gtataaattc 180

acaacttata taaaaacttt aaatgtataa ttctagcttg ccacttaaat aataattggg 240

atgaatgttt tataatacaa atactcgtcc cttaatttat cagatttttt aaatactctt 300

tttatgctgc tagaaggttt tgtctttgtt ctattactca agctgtggta ggaagaacac 360

catacaataa ttaggaggcc tggattttca tctagttaat agtaacccga ttgcagcaca 420

ctgcggccgt atattgaggc aggccgtacc tggc 454

<210> 91
<211> 757
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (258)..(697)
<223> a, c, g or t

<400> 91
ccccatgcag aaattactcc gaaggatgca caacgaccta catgtagaaa taaacccata 60

attcttaggg ataaatcttt gtgaccttgg gtcagccaat tatttcttgg attcagcacc 120

agcgacacaa gtaacccaac agaagacgga taaattgaac ttcaagaaaa ttttgtaaaa 180

attgtgcttc aaaggatacc atcaagagag tgagaagaca acctacagaa tgggagaaaa 240

tagtcgcaaa tcatatannn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnctg cccggcggcc actcgaatgt 720

ccagcacact gcgccgttac actgatgcag tcgccag 757

<210> 92
<211> 667
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (73)..(567)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (72)..(567)
<223> a, c, g or t

<400> 92
acgaattcaa tgcaattcct atcaaaatat caatataatt tctttttgag atggagtctc 60

actttgtcat gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540

nnnnnnnnnn nnnnnnnnnn nnnnnnnnctg aaaccccaaa gcaattcaca aaacattatt 600

aatggaccta ttaactaact gttgcacgca aatttatttc acgatgacat gcacttgtac 660

tactgag 667

<210> 93
<211> 581
<212> DNA
<213> Homo sapien

<400> 93
cgagcggcgc ccgggcagga ctaaacagtc gttgtaacaa aactgtgggt acaaagtcca 60

gagactctta aggcaaacaa tctgggaagt agaaatgtca gatttactta ccaaaataaa 120

aatcatcagt gacacgatca gagaaaaaaa aaaaagaaac gaaaaaaaga aaaaaagaag 180

accctcctcg ggcgagcgaa caagctccta atgccccgag acatctctca ccaccacacg 240

gcggcagcgc acggtaacta gatgggactc accagaacgt ctgcgagaca gagcgttgga 300

gagtatacgt gtgatctaag agtggtaatc ggggtagaaa cagtgcgtca accaggcctc 360

cagatagccc cggaacgaac agtctaccag acagccaaaa cgaaggaagg cgagagggga 420

ggcagcgagc ggcagacgag agagagaaga agaagagaga gagaagagag aaggagggac 480

gaagagagcg gcgaagggac gcgcaaaaga cgggagggaa gggcagcgaa gagaacagca 540

ggagaaggag ggagaagagg gggggaagcg acgagggagg g 581

<210> 94
<211> 619
<212> DNA
<213> Homo sapien

<400> 94
gttattgtaa gagataatct aatgccccag atggcctttc catagttaca gcttttattg 60

ttctcaaaat gtgtgtgttc tttatttgtg tttatgggaa gaataaagat tttcttgttt 120

gcccaggggc atgtaaggta accctggcag gttagtgtgt gtaagaatac acgggaataa 180

ttttctttgt tactttctag gacaactcat aatttatttc tggaagtcac cttagttcct 240

gtggttttcc ctcgacaatt tgaaatttct ggctccagaa ctccggattt taagcttgat 300

agttatttct catgatattc ctcataagct aggtaatatg agattttaag ccatggatta 360

aagaataaaa aatgttaagg tttggaagta gtcttatctt tttaactttg atagttcata 420

ttttatatct cagccttgga agctgcaata ggatggtgta tgttctcaaa gcgacacttc 480

gcaaatttat ttcgtacttg tacacaacag gtgacttgta caattctgta accaaattcc 540

catggattgt gcagaagaat caattcacat tttcttatta acaaagtctc agagtttaaa 600

aaatacatat ttttacagt 619

<210> 95

<211> 544
<212> DNA
<213> Homo sapien

<400> 95
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cctaaatttg aaaatatcta ataaaaactt caacatacat aaagcaaaaa ctgacaaggc 120

taaaaggaga aataaggaaa tccataatca taatgggaga ttttacacat ctctttcaga 180

aactgatata tgcagacaaa aattagtgag aatacagaat atgttaacac aattaaacaa 240

aatggacaca cctcgagcag tatatctagt aaatgcactg ctacatgtcc tttacaaata 300

cgaatagaac atttgcaaaa tgaccagctg ctaggccatc actgccaaat gctcaataca 360

ttctaaatga atctgtaata cacgactatg ttccacatac agaaagatat gttataaaat 420

ccccatcgtc ttggaaaata atatacttcc tcaaaaatgc atgggtccaa gaagaaatcg 480

aagtggatat atgacaatat cctgcaagat aatgaaaata ctacacatcc taactgatcg 540

aggt 544

<210> 96
<211> 588
<212> DNA
<213> Homo sapien

<400> 96
gaagaaacat aagcgactgg ctttaatcat gtcacggcgc agtgtgatga tattgcagaa 60

tcggcttaca gcgataacag gtatgagaca ccgccattat caagctgggg aatttttttg 120

ctaaagttag tgggtgagaa actgacttta gtatagttta tcttgcattt ctttattagg 180

agcgatgttg aacatcttcg caacgtgttt aaagaccagc ttgtgtgtat ctccttttgt 240

gtaaattgtc tgttcttgtg catgtttgcc tattttgtct gctaggattt cttgggtctt 300

gtttcctgta agttttataa gcttctttac tcagttaggg actactgagt tttgttagtt 360

tgcaatgtag gctgcaaatg ttttcttcta ggtttgttgt ttgcctgttt gactttgctt 420

atggtttttg gcataccaaa gtttagaaat ttttataaat tatatttatc aattttgttc 480

ttgttagtgc agtttgaatt tttagtaaca gaaaacgctg tttctgatat ctagattaca 540

gaggtagtta tcttatgttt tcttgtagta tgtcgggcgg gacgatgc 588

<210> 97
<211> 514
<212> DNA
<213> Homo sapien

<220>

<221> misc_feature
<222> (102)..(132)
<223> a, c, g or t

<400> 97
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aaagagtatc taagcataag tatataatga tagaaacttc cnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnggaaaaaa atcagagcaa agtaatcaag agctatagga cagctatgaa 180

aggtataaca tacatgggaa tatcaggagg agaagcaaag agataacagg aatagaaata 240

atatttgaac gtaaatgact acctgagatt tcctgaatta acagtgagac actggaacga 300

acaggatact aaacaaccta agagaatact aaagctgaat aaaatgcaaa gaaaagaaga 360

aaactacata taagcatatt atattcaatt gccgaaatca agataagaaa aatgttgaca 420

gaatccagag aagaaaaaaa cttaagaaaa agaaggaagt tagatttttg gttctttgaa 480

acagcaggaa agaaaggggg ttttgggggg aaaa 514

<210> 98
<211> 1300
<212> DNA
<213> Homo sapien

<400> 98
acaggatatg taaaataact gggattattt tatgagaagt ttgcactgtg agttacatca 60

tgacattaat ctgaacagac cattttgat taatacacat ggaaaataca ctataaattt 120

tagaatgttt gtgttttgac tgtggaaaat ttacatattt tatgtatctt tagataactt 180

agctcttaaa tttagtgctt caataatttt gccattttgt aaaaacagat atcttccatg 240

catctcacca actgactgaa acttatttat tcctatatga ttactttaat tacaaacata 300

atcatgaaaa gcttttgaat gttcagatgc acagtctact tcctggatac tttgctttta 360

ccgcacgtcc ctttgtttct cagtgtttat ttggccttta ttataaagca aaaatatgga 420

acatttttac tcctgtggag acataggctt ttacctcgtt aacctcttat ttaaactttt 480

tatcacctat tctgacaatt ttcttaaacg acaaattata ttcaactatt taattcttag 540

aaaaatgcca ccacattttt aatccctaaa ctacaactgc attgtcttga atccttttgt 600

gaaatatgtt ctttttttag cctttaagat catccagtag gcttcatgga aataaaagac 660

taaaaggatt attacttgac catctttaat cagatgttgc ttgagagtcc tagaaaaaaa 720

tatgccatta ttttaggagg ttgaagaact gaataatttt taaagtcata tgggcagtca 780

gagaagaaaa tcttttagat gtctctaccg aataatatta accacctaga aaaaaagcga 840

ccacactgac aattttcttt aaggactgag aggagattat ttcaattacc atgttgccct 900

gtccttgtca actttttcta ggatgtcaga gctaagcaaa taccccttaag atacacttaa 960

aggagaggct ggttgaaata agagaatcta aaagttgtct gcaggtctaa gaatgtctag 1020

ctttaaaaat attaaaccgt gaaaaagttc tgccaactat gtatatgttc ctccagctat 1080

tgttcactga cttagtttat aactctgcat gggactgcgt ttcttcgttt cacaaggaat 1140

aatgtccaat aagttgtaaa gaacaatttg gaccatattt atgtgcaaat atttcattga 1200

tatcatcact taatgattct aatatttccc atgtgtcagc ttgtgcactt tttgtgtaga 1260

attctgtgac cagaagataa aaatctacta gcagatattt 1300

<210> 99
<211> 340
<212> DNA
<213> Homo sapien

<400> 99
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gagatgaaat actcaatctc tctctctctg ctttttccaa gtatttttttc tttcagggtg 120

ctaaataaaa tatgttaaca tataatgcct tatttacaga aataaaagtt agttattgaa 180

acaatttgta atttagttct tgaagtaaga aatacaaaaa ggtgataatt agggcagttg 240

aaaatcagca ttatggggat agatgtgttt tccttttgtt tccaagagct gggcagacca 300

tgctgaagag attcagttct ctgaatttgc tccaagtggt 340

<210> 100
<211> 888
<212> DNA
<213> Homo sapien

<400> 100
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ctggttttta agaacatatt ctgaccacta aataaaagtg cttctgtagt tacatgagtt 120

aatttgggag ggagagcaga acgagtttca aagtagttgg cctagcatag tcaattagat 180

aaagcagtgc attgtaattc aaatcaattt tcattttgta attattgcta tcagtaaaca 240

tttttttttc aacatgcagt gcagttaatt ggtaaggtcc agcattaatt tactcaacat 300

atatgctgct tttggagtta aaaatctttt ctcaaatcaa aaactcctga actgtctgtc 360

tttattctca gtattgctaa tgactaagca gatggctgct gttgaaactt cttttcctcc 420

actacctgtt tctgtttata ttctgatgaa tgcagataca gttctagtgg cattctcagc 480

tgatacggtg ttgacttctt ggaagtttgg caaaacctca gggaacaatt tttcattgcc 540

agttttaaag ctgtttagga cctttatcta aaaaacttaa agtgttacgg aatttcttcc 600

acattttaga gatgccttta atatcctaca tagtcatcat atgtatacag ctcctggcat 660

acttagcaga ttgggtagtc taatctccag taaagttgga attgtcatct attaaaatac 720

tggaatcaca aagcaaatgt ctaatttaac gcaccttaat ttttaatgat gtgaaatcat 780

ggataatatt gtgatttctg agcatctaat tatttcattt atgtacctgc ccaagaccga 840

attgcagcac actgcgccgt attcagcgag gtgagctcga tcactgga 888

<210> 101
<211> 937
<212> DNA
<213> Homo sapien

<400> 101
tctaaagtaa atattacctt ctcatttttg tgaaccttca ttatttttac ttggtaagtt 60

aatgcaactg cgaaatcagt actcctttct tcataaattt gaatagcttc catgaaattg 120

agtaatctca taaaaattta aaactggttt ttaagaacat attctgacca ctaaataaaa 180

gtgcttctgt agtcacatga gttaatttgg gagggagaga gaacagttta aagtgttgcc 240

tagatagtaa ttagataaga gtgattgtaa ttaaataatt ttatttttaa ttttgcttag 300

taaatttttt tttcaacatg cagtgagtta attggtaagg tccagattaa tttactaaca 360

tattgctgct tttggagtta aaaatctttt ctcaaatcaa aaactcctga actgtctgtc 420

tttattctca gtattgctaa tgactaagca gatggctgct gttgaaactt cttttcctcc 480

actacctgtt tctgtttata ttctgatgaa tgcagataag ttttgtggca ttctcagctg 540

atagtgttga cttcttggaa gtttggcaaa cctcagggaa aatttctatt gcaagtttta 600

aagctgttta ggactttatc taaaaactta agtgttacgg gatttcttcc acattttaga 660

gatgccttta tatcctacat agtcatcata tgtatacagc tcctggcata cttagcagat 720

tgggtagtct aatctccagt aaagttggaa ttgtcatcta ttaaaatact ggaatcacaa 780

agcaaatgtc taatttaacg caccttaatt tttaatgatg tgaaatcatg gataatattg 840

tgatttctga gcatctaatt atttcattta tgtacctgcc caagaccgaa ttgcagcaca 900

ctgcgccgta ttcagcgagg tgagctcgat cactgga 937

<210> 102
<211> 542
<212> DNA
<213> Homo sapien

<400> 102

aagaaaacaa ggaccaggta gtacgagctc gatcattgat acggcgcagt gtgctcgaat 60

tcgtgctttc gagcggcgcc cgggcaggta ctatcatatc ctataaaaac acaagttttt 120

aacataaatt gtcatatttt gccaatcttt ccccactctg gagctgtctt tttttttttt 180

tttttaaag tcaagcacaa tgttttaaat ctccaaagtt gttgaaagga aaattcagtt 240

tattgtttaa attttgatta aaacttttga ttagttgaca gcgcaacttt taaattattt 300

tttacttcat ctccctaaag cattgagttt gaattttctc ttggtgcttt tgttgagatt 360

ttttacaagg aatggtgttc aattaagaaa tatgattact gcgttagtaa cataaaaaat 420

acttatctga aatactgagg gcacaattag tgctatggaa ctggatattt acatacctac 480

tctgagaggc atgggaaatc tctgtgtctt tcttctgtac ctcgccgcga ccacgctaag 540

cc 542

<210> 103
<211> 793
<212> DNA
<213> Homo sapien

<400> 103
aagaaaacaa ggaccaggta gtacgagctc gatcattgat acggcgcagt gtgctcgaat 60

tcgtgctttc gagcggcgcc cgggcaggta ctatcatatc ctataaaaac acaagttttt 120

aacataaatt gtcatatttt gccaatcttt ccccactctg gagctgtctt tttttttttt 180

tttttaaag tcaagcacaa tgttttaaat ctccaaagtt gttgaaagga aaattcagtt 240

tattgtttaa attttgatta aaacttttga ttagttgaca gcgcaacttt taaattattt 300

tttacttcat ctccctaaag cattgagttt gaattttctc ttggtgcttt tgttgagatt 360

ttttacaagg aatggtgttc aattaagaaa tatgattact gcgttagtaa cataaaaaat 420

acttatctga aatactgagg gcacaattag tgctatggaa ctggatattt acatacctac 480

tctgagaggc atgggaaatc tctgtgtctt tcttctgtac tggaggtttt ccatctgcag 540

tcatttcaat catacaaaca actccagggc tgccaacagg cgttgtgtag ctttttgcag 600

ccttttcatt tgttttagat aacctgaact tccatttggg caggtcttct aaaaatctac 660

aaataaattg tcttttccaa atcagaatgt ttccaccaat attgctaagc atacaggcag 720

atctgtggat gagctcctta ggatgagcac ctattgccaa tgaaatatct ccaggatatt 780

gctcattttg cat 793

<210> 104
<211> 829
<212> DNA

<213> Homo sapien

<400> 104
tccagtggtc gagctccatc actgatacgg ccgcagtgtg ctgcaattcg gcttacttgg 60

ttatcttaaa aacactgtga aactagtaga atgttggctt aactgtagat attcttattt 120

tttccaatct tagggataat tcttattcct ggcatgtggt atttactcag agagcattat 180

ccagctgggg gtttcaactg taaagctcag attggtctac tgataccctc ttaagtagta 240

gtaatttaat acacctaaat tccatgttct attgatgtgc acacgcaact aaaatctatg 300

atcaggtttt agtattctgt tagttattca actggatggt ctctgtccgc ataaatgtaa 360

tagatcatga atcagccaac gaattttgag aaggagaaaa taacaatata tgtgtattat 420

gtggttatat aacaatataa caatacaacc tatactatgc ttctgctgat ggaatcctct 480

ctcactcatg catgtattcc tgccctctcg ctgttatcaa gcctatgtac tgacaagcac 540

tggatcattc aactatctga ttagaggtct aagggtagtt attccatgag accatataag 600

aagggccctc agagaaggag acaatgtaaa caaaaatcat caagggttcc tttctttcaa 660

gaatcaacac gtgccagtct cttgcctact attgatcatt atttcaacaa ttgatagtat 720

tcttatcatt cgcccactat ttgatggggg tgtttgtttt tttctgtaaa ttatgtttga 780

ggtacaagac gaagtgcagc acactgcgcc gctataagtg atggagtgt 829

<210> 105
<211> 745
<212> DNA
<213> Homo sapien

<400> 105
accaagaggt aagtttttag taactaaaag ggagaagtaa cttattatta gaaagttcca 60

atatatagaa tggggtttca tcagaaaata atggctctta gcagccattg tcttctgcag 120

aagagtgtca ctacgggaaa tatattagat agagacgcac tcgactcaca ctccttggat 180

gtatagcgct aataactcgt tataaagtcc attaataata ctaagcatct agatacaatc 240

tttgataaag catcccaaag tccttcacta ctatataaat cttattccat aagaacaatt 300

tctatttata atcaaacaca agatgctgca tgcacattta agcattgaga gttacagcag 360

taaataagaa agtggaggct cccttgaagg ttacacttat attgggagga gtgggtggat 420

acatggttaa caataagcaa tatataaata ggaagaaata gaaagtagga gaaagtgcct 480

ttcccattga cttgtgtgaa acccccatgt cactctaggt ataataattt taaatgtgac 540

aggtgctgac ctctgtctgc gaggatggct agcatcacct tcttgtctcc ctggactact 600

gtttgaatgt ctacattgtc tctcaccact tgcccatgga acccaatttc tatggatttg 660

tcctgctgat ctctggcaga tccttgggtc ctgagaacct ctggtatttc agtctaagtg 720

ccacttgagt tcctaatctg acagt 745

<210> 106
<211> 698
<212> DNA
<213> Homo sapien

<400> 106
aagtggtcga gtcgcatcac ttatacggcg ccatgtgctg gaatcggctt gggcaggtac 60

cagttaatta tcacaacaaa tttcacactt tgcaactatt ggtttatcaa agtaattcag 120

tgatggctga catggctgcc caaatgactg tgtaatgaat acttcattaa aaaaatatgt 180

cgctgtcgta gcaatgatga ccttttagat gaggcagtag ggtgatgctc agttgttgtt 240

ctcataattc tctactaaca atgatgacat gatttatgat tatttacttc aggttgctta 300

gttaccaagt ctctcttgta taattctttt tgcttgcttt cttctaagag ttttttttt 360

tttttaaagg aaatagccac acggtttttc ttttttttctc tttaaaaata gccatctcca 420

cacttttttgt gcttgaacag aagaaattct ctctccttag ggaagaaaag gggagattgt 480

aggtgattgg aattgggcaa taatgtgtct agagagattt cgtgggtaag gaaaagcttg 540

attgtgacag acttgttgtt tggaagagag acaaggcaac ctcccacaat gggaattaac 600

cagcaagagg accttgactg gaaatatcct aatgtcgcta ggaaacaaag ctagagtcat 660

tttgtaccca gtatgagatg taagccttct attggagc 698

<210> 107
<211> 849
<212> DNA
<213> Homo sapien

<400> 107
ggtgtttcta cagaggtttc cccagcgatt aaattgggta cccccggggt ttcccccgcc 60

cgaccttgtt aaccgccgcc cctggattgt atacgactcc ctattgggcg cattggccct 120

cttagaacca tgctcggccg gccccccccc gtggtggaaa ttcccgattc tggcttttgg 180

cggcccccccc gggcaggtac ccccccctgg gccacagagc aacaccttga ctcaaaaaaa 240

aaaaaaaaaa aaccaaaaaa aaaaattttt ggaaatttgg gcttttgggc cccacttact 300

ccatgggctt tccagtgtca tagatacgtg tcatgaaatt tcttttacaa ttggcttctc 360

cagaagggag atacgccttt tggactctag ttgcacaggg ttgctccacg tctctggaga 420

ctttcgtcag ggcccacatt gtggaagaca gaattgctcc tgtggcgcca cgagtataaa 480

tatatactaa cgtggctaat ggatcagttg gatggacgct ttataaaaac aaaacaggtg 540

tttggtccca tcaattttcc aattgtatcc cccaccaacc aacaagattt gggcggagaa 600

aaagtccttt tgtacgtcaa acgcgtgttg ggcacccggg ttggctctaa gtggtctttg 660

ccggcccgtg tttggggccc cttcgggccg ggcgaccaac cgtttaagcc gggatttcca 720

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gtgcgggtac cccttgggcc caaacgctgt cgcctggtgt gaaattgttt cccgtcgatc 840

acaaagcag 849

<210> 108
<211> 605
<212> DNA
<213> Homo sapien

<400> 108
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gctaaggagc gttaattata gcatgtaacc taagttattt tccaatttta gaaaattagt 120

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gggttttttc caagtctgtg ggaggaaaat acattggctt cctaaaccat ttagatccag 300

accaaatgaa tataattgca tcttttaaaa aatattaagt ttgtaaaaat cattgggaga 360

actggtagca ttttaaagag gcccctatag taagctgtga tggcagcaaa taacttttct 420

gggttggggg acgagcgtct ttcctgtcaa acggggcaaa tagaacgaca tactactttc 480

tggcaactaa tttatttcct cttcatactc ttctattgaa gatctaggaa agaaatataa 540

tgtatacctt ataactctgt gaaatttttt tcgtgtgtta gactgcgatt aaaaagtgat 600

accca 605

<210> 109
<211> 959
<212> DNA
<213> Homo sapien

<400> 109
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atgatcataa tagcaaatat gtgttacatg cttcctatgt gccagaaact gctaagtgtt 120

ttatatgtgt ggtttcctta gaggcaagta tattaatagc agccagaagt gacacctgat 180

ggcaagggga gaaaacactg ttaagaccag aacagtctga accttggtat gaggcaagca 240

gatctaccta ctcagcccaa tgtctgtccc tgtattccag cactgcatac atgaggacat 300

taataatcaa gaaaaggtta aattacattt ctcccttgtg gtttaatgta tagtacattg 360

cagcatttta agaacagaat atgtagatgt atgtacaact tctctcttcc cccagctaag 420

gagcgttaat tatagcatgt aacctaagtt attttccaat tttagaaaat tagtttagta 480

tattcatttt ctgcacattt gaaatgtaat tggatatctt ttattgtcat tttaatagta 540

taactatttc tggtagccta tatttttatg gcttaaatag ctctataaac tttagggttt 600

tttccaagtc tgtgggagga aaatacattg gcttcctaaa ccatttagat ccagaccaaa 660

tgaatataat tgcatctttt aaaaaatatt aagtttgtaa aaatcattgg gagaactggt 720

agcattttaa agaggcccct atagtaagct gtgatggcag caaataactt ttctgggttg 780

ggggacgagc gtctttcctg tcaaacgggg caaatagaac gacatactac tttctggcaa 840

ctaatttatt tcctcttcat actcttctat tgaagatcta ggaaagaaat ataatgtata 900

ccttataact ctgtgaaatt tttttcgtgt gttagactgc gattaaaaag tgataccca 959

<210> 110
<211> 788
<212> DNA
<213> Homo sapien

<400> 110
ggcgccatgt ctgcaattcg gtgggcaggt cttttattta ttttgttaag agtaagtgct 60

ttttgacaaa ctttcagttt gttaccaagg aaggaaagaa atagaggatc tcttctgatg 120

gttacatcat tactcctttt ggttaacaaa accacttatt actttccctt tgggtagcaa 180

tcttgaattg aagttcttca cagatgacct aaaatggcaa tctgtcctct aagaacttgc 240

attttgagag atgacaaatg ttcccaggta acttaacatc aaataggtta tccactggtg 300

caggccactt tacaatatgt aaagggtttt tacaacacct tgttcaagtc tcatgataac 360

tctgtgaaat aagttgggcc aatattgtca ttatcctcat tttatgcgag gacaaggaca 420

gtgagtcttt gtgatgacag gggcctctct agcataaagc agatagaagt gtgagcactc 480

cggcatatta tttattttgg ggcttggctt tttatagcaa attatcacta gaaaggcatc 540

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ttctgcagat atcatcacac tggcggcgct cgacatgctt taaaggccaa tccgccttta 720

ttgagtgtat tcaattactt ggcgcgttta aagtctattg gaacctggtt ccattctcac 780

ttttaaaa 788

<210> 111
<211> 335
<212> DNA
<213> Homo sapien

<400> 111
tccaagactt ttacttcact gtctttcaat tgcctgcgta tggtatccct gaggactgac 60

gatactcact gacatgaggg tagggctggg gaggagcgct cactatataa gtcactgagt 120

gaatgagtaa atcataattt tacctcccca ttttctccta ctcttctcta atcacctatt 180

ctttgtcatc cccaactacc ttcatgattg gaaagataac gcgagttgtt gagaaaaaaa 240

cactaggttt ggtttcagtg ccccagaagt cctaactcta ttactgtaag ccgaagtcag 300

cacactgcgc cgtataacgt aggcggctcg ttcct 335

<210> 112
<211> 1101
<212> DNA
<213> Homo sapien

<400> 112
tcgcgctcgc ccactatacg gcgcagtgtg tggatcgggt gggcaggtac gtggtagagt 60

atgctacgag taaaaaattg ggagattcag actcaaattc tcttgagatt agaccaaagt 120

atatttatca aatgcttagt tgggcataaa aatactccaa ttacagaact tgcatattat 180

tatccactct ataatagtag agagtcataa cctatgattt gtccccttgg aagagtctat 240

tcattatact ctaaagttta aaccactggt ccttatatgt tccatatatt atcagattca 300

tatatagaga taattaacct attccttatg gatgtaaaat aggcgtttca aaattaacat 360

agttcaacaa ttgaactctg gagttctctt tccatagttt attctttctc tgatctttcc 420

cgtatttgta agagtatttc tttatactaa caccaaaaag cacacaatca tcgggacaat 480

atctatatac tttagctctt ataccacagc ctgtatcctt caggcaaatc ttgccatcct 540

aaacttgtcc ttaaatccct cagtcccccc tttgctgcta ctctagtcca ggccaccata 600

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attaatgata actaacagcc tacctttgta atattccaga gtaaactatc actttaaaaa 840

agatataccc ttcactgcgg gaattaccaa gcatgtggaa gagtttttc ataacaactc 900

ttttcatgac ggattttgcc acagcccttg gaatttcttt ttttaatgat tgaaactaac 960

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gaggataacg atgacaacac atgaaataaa ttaaaatgtt atgagtgcac ctataggtag 1080

acaaatagaa gaactagatg t 1101

<210> 113
<211> 1181
<212> DNA
<213> Homo sapien

<400> 113
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atgctacgag taaaaaattg ggagattcag actcaaattc tcttgagatt agaccaaagt 120

atatttatca aatgcttagt tgggcataaa aatactccaa ttacagaact tgcatattat 180

tatccactct ataatagtag agagtcataa cctatgattt gtccccttgg aagagtctat 240

tcattatact ctaaagttta aaccactggt ccttatatgt tccatatatt atcagattca 300

tatatagaga taattaacct attccttatg gatgtaaaat aggcgtttca aaattaacat 360

agttcaacaa ttgaactctg gagttctctt tccatagttt attctttctc tgatctttcc 420

cgtatttgta agagtatttc tttatactaa caccaaaaag cacacaatca tcgggacaat 480

atctatatac tttagctctt ataccacagc ctgtatcctt caggcaaatc ttgccatcct 540

aaacttgtcc ttaaatccct cagtccccct tttgctgcta ctctagtcca ggccaccata 600

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atactctgcg tggaaaaacc tgtcctcagc acaactactt aaactcacat taccataagt 780

attaatgata actaacagcc tacctttgta atattccaga gtaaactatc actttaaaaa 840

agatataccc ttcactgcgg gaattaccaa gcatgtggaa gagtttttc ataacaactc 900

ttttcatgac ggattttgcc acagcccttg gaatttcttt ttttaatgat tgaaactaac 960

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gaggataacg atgacaacac atgaaataaa ttaaaatgtt atgagtgcac ctataggtag 1080

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atgcgtagac tagtcagttt ccagttgtgt gactagagca g 1181

<210> 114
<211> 552
<212> DNA
<213> Homo sapien

<400> 114
acccacaaac atttttgta aagaaagata tgacaaagaa aaaataattg ttgttattta 60

gagatcgtgc gtaatctatc ttaataaaac agatgaagga tatacacaca tgaagaaagg 120

gtgtgatggt taatttttatt tggtaacatc ctgactgggc cccaaatatt cacttaagtt 180

attattcatg tggttgttct ggatgaaggc gtttctgtga tgagattaat catttgtaca 240

tcggtagact ggaataacag cattatttcc ctccctaatg tcgagtggat gcctcatcca 300

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tgcaatgcct ggactgtctt tgaagcccta ggacactggt tcttctctgt gccttttttt 420

tttatttttc tatttttggg gggagaggaa tccttttttt ccaaaacaaa acaaaaaggt 480

cttttataat tggggaaaat tccattttgg ggggagtaaa acttaaaaat gtggaagggg 540

gggggggagaa at 552

<210> 115
<211> 44
<212> PRT
<213> Homo sapien

<400> 115

Met Val Leu Asn Ser Leu Pro Ser Leu Cys Thr Pro His Asn Ser Thr
1 5 10 15

Cys Ser Trp Leu Leu Thr Pro Asn Pro Cys Ser Ser Leu Trp Lys Gly
20 25 30

Phe Leu Leu Val Tyr Val Arg Ile Gly Leu Lys Cys
35 40

<210> 116
<211> 62
<212> PRT
<213> Homo sapien

<400> 116

Met Glu Thr Phe Phe Phe Ile Lys Ile Phe Trp Leu Thr Glu Tyr Arg
1 5 10 15

Ser Asn Lys Asn Lys Arg Asn Asn Gly Phe Arg Asn Leu Leu Leu Val
20 25 30

Val Ala Thr Ile Tyr Ile Thr Lys Arg Glu Ser Gln Ala Asp Leu His
35 40 45

Val Leu Arg Lys Ala Val Asn Ile Thr Tyr Asp Leu Ile Cys

50 55 60

<210> 117
<211> 38
<212> PRT
<213> Homo sapien

<400> 117

Met Tyr Ile Leu Arg Thr Leu Lys Thr Ile Lys Asn Ile Met Ile Thr
1 5 10 15

Ala Ala Lys Ser Asn Lys Leu Phe Asp Ile Asn Ile Tyr Pro Val Gly
20 25 30

Ile Lys His Ser Ser Tyr
35

<210> 118
<211> 31
<212> PRT
<213> Homo sapien

<400> 118

Met Gly Lys Ser Gln Gln Ser Asp Lys Arg Lys Lys Glu Arg Ala Ser
1 5 10 15

Asn Trp Lys Thr Gly Ser Ile Asn Thr Ile Val Ala Val Cys Gln
20 25 30

<210> 119
<211> 65
<212> PRT
<213> Homo sapien

<400> 119

Ala Ile Arg Gln Glu Lys Glu Ile Lys Gly Ile Gln Thr Gly Lys Glu
1 5 10 15

Glu Val Lys Leu Ser Leu Phe Ala Asp Asp Met Ile Leu Tyr Leu Glu
20 25 30

Lys Pro Arg Leu His Gln Lys Thr Leu Glu Leu Ile Asn Lys Phe Ser
35 40 45

Ile Val Ala Arg Tyr Lys Ile Asn Ile Gln Lys Ser Val Val Phe Leu
50 55 60

Tyr
65

<210> 120
<211> 66
<212> PRT
<213> Homo sapien

<400> 120

Met Ala Ser Ser Leu Thr Leu Thr Ala Gln Cys Ala Gly Ile Gly Leu
1 5 10 15

Tyr Ile Pro Leu Ser Glu Leu Asn Glu Ser Met Asp Leu Phe Gln Leu
20 25 30

Phe Leu His Tyr Arg Ala Ser Val Leu Val Ser Cys Tyr Asp Cys Phe
35 40 45

Gly Leu His Trp Leu Asp Asp Cys Ile Ala Trp Asp Tyr His Lys Asp
50 55 60

Pro Gly
65

<210> 121
<211> 26
<212> PRT
<213> Homo sapien

<400> 121

Met Asn Ala Val Phe Tyr Gln Ile Val Gly Ile Asn Trp Leu Ala Ser
1 5 10 15

Ile His Val Ser Ile His Gln Gln Arg Tyr
20 25

<210> 122
<211> 48
<212> PRT
<213> Homo sapien

<400> 122

Met Glu Met Asp Ser Ser Leu His Asn Ser Met Thr Tyr Thr Val Ile
1 5 10 15

Phe Pro Ser Arg His Ile Phe Phe Thr Tyr Phe Arg Leu Asn Ile Leu

20 25 30

Lys Leu Val Asn Glu Ser Ser Lys Tyr Lys Arg Thr Lys Met Glu Lys
35 40 45

<210> 123
<211> 24
<212> PRT
<213> Homo sapien

<400> 123

Met Cys Lys Phe Val Thr Trp Val Asn Tyr Val Ser Cys Gly Phe Gly
1 5 10 15

Ile Leu Thr Ile Ser Ser Pro Arg
20

<210> 124
<211> 61
<212> PRT
<213> Homo sapien

<400> 124

Met Glu Gly Ser Leu Ser Pro Val Val Leu Leu Phe Leu Phe His Ser
1 5 10 15

Leu His Ile Val Asp Ile Phe Arg Val Ile Gln Leu Leu Lys Asp Met
20 25 30

Asp Arg Thr Gln Asn Trp Tyr Gln Asp Leu Pro Thr Gly Asn Tyr Leu
35 40 45

Met Leu Ser Leu Asn Ser Leu Ser Leu Ser Val Ser Arg
50 55 60

<210> 125
<211> 82
<212> PRT
<213> Homo sapien

<400> 125

Met Arg Glu Tyr Ser Phe Ser Ala Glu Tyr Phe Ser Arg Pro Leu Cys
1 5 10 15

Ile Arg Ile Pro Gln Cys Ala Phe Met Glu Val Val Ala Ile Phe Gln
20 25 30

Lys Phe Asp Ser Tyr Tyr Ser Arg Gly Ser Val Asp Gln His Trp Glu
35 40 45

Asn Val Asp Ile Ser Thr Cys Lys Gly Ile Pro Leu Leu Lys Asp Phe
50 55 60

Ser Glu Ser Cys Ser Tyr Ala Gly Phe Phe Asp Ile Pro Lys Phe Cys
65 70 75 80

Gly Lys

<210> 126
<211> 52
<212> PRT
<213> Homo sapien

<400> 126

Met Met Leu Arg Trp Arg Trp Ala Gly Gln Lys Gln Ser Ala Val Ala
1 5 10 15

Cys Asn Tyr Cys Val Met Trp Ile Leu Leu Ser Leu Lys Leu Ser Leu
20 25 30

Leu Gly Tyr Ile Ile Val Arg Leu Gln Arg Lys Ile Ile Ile Thr Thr
35 40 45

Gly Gln Asn Arg
50

<210> 127
<211> 57
<212> PRT
<213> Homo sapien

<400> 127

Met Phe Cys Arg Asn Arg Lys Ile His Thr Asn Asn Ser Asn Ile Ser
1 5 10 15

Lys Asp Pro Gln Met Ala Lys Met Ile Leu Lys Lys Asn Val Phe Gly
20 25 30

Gly Pro Gln Thr Pro Cys Cys Gln Asn Leu Phe Pro Ser Tyr Asn Asn
35 40 45

Gln Asn Ser Ile Val Leu Ala Glu Arg
50 55

<210> 128
<211> 53
<212> PRT
<213> Homo sapien

<400> 128

Met Cys Lys Asn Trp Pro Ser Ile Asn Ile Ile His Trp Ile Asn Ile
1 5 10 15

Lys Phe Lys Ile Pro Phe Thr Leu Gly Lys Gly Lys Arg Arg Glu Ile
20 25 30

Tyr Glu Arg Arg Met Leu Gly Val Ser Thr Met Phe Phe Phe Phe Asp
35 40 45

Phe Phe Met Ser Phe
50

<210> 129
<211> 62
<212> PRT
<213> Homo sapien

<400> 129

Met Val Thr Thr Lys Glu Asn Met Tyr Ser Gln Arg Arg Met Arg Lys
1 5 10 15

Glu Ala Thr Phe Val Thr Thr His Lys Thr Thr Asn His Lys Arg Gln
20 25 30

His Lys Trp Arg Glu Leu Gln Gly Lys Ala Ile Arg Cys Lys Pro Ser
35 40 45

Ser Ser Thr Leu Arg Ala Leu Ile Val Met Arg Ala Arg His
50 55 60

<210> 130
<211> 38
<212> PRT
<213> Homo sapien

<400> 130

Met Ser His His Asn Cys Ala Asn Lys His Ser Cys Val Lys Asn Glu
1 5 10 15

Asp Thr Val Phe Tyr Phe Lys Lys Val Gln Tyr Asn Ile Pro Cys Pro
20 25 30

Leu Asn Val Glu Ser Phe
35

<210> 131
<211> 25
<212> PRT
<213> Homo sapien

<400> 131

Met Arg Arg Ile Leu Ile Asn Gln Lys Lys Cys Tyr Gly Pro Leu Ile
1 5 10 15

Glu Met Leu Phe Phe Cys Thr Ser Asn
20 25

<210> 132
<211> 316
<212> PRT
<213> Homo sapien

<400> 132

Ile Arg Asn Asp Lys Gly Asp Ile Ala Thr Asp Pro Thr Glu Val Gln
1 5 10 15

Thr Ile Ile Arg Glu Tyr Tyr Lys Tyr Leu Tyr Ala Ser Lys Leu Glu
20 25 30

Asn Leu Gly Glu Met Asp Lys Phe Met Thr Tyr Thr Leu Pro Arg Leu
35 40 45

Lys Gln Glu Glu Ile Glu Ser Leu Lys Arg Pro Ile Ser Cys Ser Glu
50 55 60

Ile Glu Ser Val Ile Asn Ser Leu Pro Thr Thr Lys Ser Pro Gly Pro
65 70 75 80

Asp Gly Phe Thr Ala Glu Phe Tyr Gln Val Tyr Lys Glu Glu Leu Val
85 90 95

Pro Phe Leu Leu Lys Leu Phe Gln Lys Lys Lys Lys Lys Asn Trp Gly
100 105 110

Lys Arg Leu Phe Leu Pro Asn Ser Phe Leu Ala Asn Pro Phe Ser Pro
115 120 125

Leu Glu Leu Pro Lys Ser Gln Ala Arg Asn Thr Leu Gln Lys Lys Asn
130 135 140

Leu Gln Val Ile Met Phe Ser Asn Ala Pro Ile Arg Ile Val Lys Ile
145 150 155 160

Leu Leu Leu Arg Lys Asn Tyr Leu Ala Lys Thr Gln Tyr Leu Arg Ile
165 170 175

Asn His His Ser Lys Gln Gly Leu Val Leu Leu Ile His Tyr Arg Cys
180 185 190

Gly Ile Tyr Tyr Ser Pro Gly Gly Arg Gln Gly Tyr Ala Val Pro Gly
195 200 205

Ile Ser Thr Lys Phe Thr Ala Arg Val Val Ile Thr Phe Thr Ile Ile
210 215 220

Thr Gly Thr Tyr Lys Asp Lys Asn Pro Met Ala Val Ile Pro Gln Leu
225 230 235 240

Asp Val Gln Lys Lys Ser Ile Ser Ile Lys Gly Pro Ala His Phe Phe
245 250 255

Ala Leu Ile Lys Ile Leu Leu Ile Gln Ile Leu Ser Gln Ile Ala Gly
260 265 270

Phe Asn Gly Lys Thr Pro Ser Gln Lys Leu Arg Ala Ile Tyr Asn Lys
275 280 285

Pro Ala Ser Gln Gly Ala Ser Leu Gly Gly Arg His Ala Glu Lys Phe
290 295 300

Pro Tyr Thr Ser Gly Val Arg Gln Arg Ala Pro Ile
305 310 315

<210> 133
<211> 34
<212> PRT
<213> Homo sapien

<400> 133

Met Ala Phe Arg Ile Val Leu Thr Arg Leu Arg Ile Ile Tyr Phe Leu
1 5 10 15

Leu His His Val Leu Ser Tyr Lys Glu Asp Lys Met Leu Ile Ala Ile
20 25 30

Gly Asn

<210> 134
<211> 123
<212> PRT
<213> Homo sapien

<400> 134

Gln Glu Ala Leu Ala Arg Ile Ala Cys Gln Asn Asn Met Thr Arg His
1 5 10 15

His Ser Tyr Arg Ser Val Arg Gly Asn Ala Leu Glu Lys Lys Ser Asn
20 25 30

Tyr Glu Val Leu Glu Lys Asp Val Gly Leu Lys Arg Phe Leu Pro Lys
35 40 45

Ser Leu Leu Asp Ser Val Arg Ala Lys Thr Leu Arg Lys Leu Met Gln
50 55 60

Gln Thr Cys Arg Gln Val Thr Asn Leu Asn Arg Glu Glu Ser Ile Leu
65 70 75 80

Lys Phe Phe Glu Ile Leu Ser Pro Val Tyr Arg Phe Asp Lys Glu Cys
85 90 95

Phe Lys Cys Ala Leu Gly Ser Ser Trp Ile Ile Ser Val Glu Leu Ala
100 105 110

Ile Gly Pro Glu Glu Gly Ile Ser Tyr Leu Thr
115 120

<210> 135
<211> 56
<212> PRT
<213> Homo sapien

<400> 135

Met Leu Val Thr Ile Phe Tyr Leu Ile Leu Lys Ser Ser Gly Ile Ile
1 5 10 15

Met Ser Ile Tyr Leu Ile Leu Gly Met Phe Gln Ile His Phe Gln Glu
20 25 30

Trp Val Ser His Ser Leu Phe Thr Tyr Cys Ile Gln Ile Ile Leu Asp
35 40 45

Leu Ile Ile Ser Lys Ile His Ile
50 55

<210> 136
<211> 38
<212> PRT
<213> Homo sapien

<400> 136

Met Cys Ile Cys Ile Ser Asn Cys Tyr Val Phe Leu Ile Val Asn Leu
1 5 10 15

Phe Asn His Cys Lys Met Thr Phe Phe Ile Leu Ser Asn Met Asn Cys
20 25 30

Ser Lys Ile Tyr Phe Phe
35

<210> 137
<211> 30
<212> PRT
<213> Homo sapien

<400> 137

Met Arg Thr Asn Ile Val Leu Thr Arg Tyr Met Val Leu Arg Ser Val
1 5 10 15

Ile Phe Asn Thr Asn Val Leu His Cys Tyr Ser Ile Tyr Leu
20 25 30

<210> 138
<211> 52
<212> PRT
<213> Homo sapien

<400> 138

Met Phe Gln Gln Lys Leu Thr Gln Glu Gly Lys Lys Ser Gln Lys His
1 5 10 15

Ile Ile Asn Asn Thr Val Cys Asn Leu Ile Ile His Asn Glu Asn Ile
20 25 30

Asn His Leu Asn Asn Glu Thr Leu Leu Cys Asn Pro Ile Ile Leu Ile
35 40 45

Asn Lys Ile Leu
50

<210> 139
<211> 70
<212> PRT
<213> Homo sapien

<400> 139

Met Gly Ser Cys Cys Ser Ser Gln Tyr Val Val Lys Leu Asn Glu Tyr
1 5 10 15

Ile Arg His Gly Thr Cys Asn Cys Gly Asn Ala Glu Leu Gln Gly Met
20 25 30

His Ile Leu Lys Phe Asn Gly Tyr His Gln Ile Ala Phe His Ile Ile
35 40 45

Lys Ile Leu Asn Tyr Lys Gln Glu Asn Thr Ile Met Asp His Ser Asn
50 55 60

Gln Glu Asn Phe Phe Phe
65 70

<210> 140
<211> 52
<212> PRT
<213> Homo sapien

<400> 140

Met Thr Leu Leu Asn Phe Tyr Phe Arg Phe Arg Gly Ala Cys Val Met
1 5 10 15

Ala Val Tyr Cys Lys Pro Tyr Ser Ala Asp Thr Thr Leu Ser Thr Gly
20 25 30

Gly Pro Leu Asp His Ala Ser Ile Ser Pro Arg Arg Ile Val Cys Thr
35 40 45

Val Ser Ser Glu
50

<210> 141
<211> 13
<212> PRT
<213> Homo sapien

<400> 141

Met Lys Ala Pro Gly Lys Gln Phe Tyr Ser Asn Arg Ser
1 5 10

<210> 142
<211> 54
<212> PRT
<213> Homo sapien

<400> 142

Met Phe Trp Ile Pro Val Pro Tyr Thr Val Arg Cys Phe Tyr Lys Tyr
1 5 10 15

Phe Leu Leu Val Cys Arg Leu Ser Phe His Ser Leu Asn Ser Ile Leu
20 25 30

Phe Pro Glu Pro Glu Phe Ile Tyr Ser Phe Val Phe Arg Gly Ser Arg
35 40 45

Ser Val Thr Gln Ala Gly
50

<210> 143
<211> 69
<212> PRT
<213> Homo sapien

<400> 143

Glu Leu Ala Glu His Phe Val Cys Phe Gly Tyr Gln Ser Leu Ile Gln
1 5 10 15

Leu Gly Val Phe Ile Asn Ile Phe Ser Ala Ser Val Ala Cys Leu Phe
20 25 30

Ile Leu Leu Thr Val His Phe Thr Ala Gln Phe Leu Ile Leu Met Lys
35 40 45

Ser Thr Leu Ser Ile Phe Ser Phe Met Asn Tyr Ala Phe Gly Val Leu

50 55 60

Ser Glu Asn Ser Leu
65

<210> 144
<211> 40
<212> PRT
<213> Homo sapien

<400> 144

Met Pro Ala Cys Met Tyr Thr Arg Leu Arg Thr Pro Asn Pro Lys Thr
1 5 10 15

Ile His Cys Ile Glu Cys Val Val Phe Gln Phe Phe Cys Thr Ser Ala
20 25 30

Ile Leu His Leu Gln His Thr Ala
35 40

<210> 145
<211> 35
<212> PRT
<213> Homo sapien

<400> 145

Met Lys Gln Ala Lys Lys Lys Lys Lys Arg Lys Glu Arg Lys Lys Lys
1 5 10 15

Lys Glu Arg Glu Arg Gly Arg Glu Glu Gly Gly Arg Lys Lys Glu Arg
20 25 30

Gly Gly Arg
35

<210> 146
<211> 46
<212> PRT
<213> Homo sapien

<400> 146

Met Cys Ile Pro Glu Lys Thr Gly His Phe Ile Gln Asp Gln Glu His
1 5 10 15

Pro Thr Lys Lys Gln Lys Gln Arg Glu Ile Ser Phe Val Phe Val Ser
20 25 30

Gln Phe Lys Thr Arg Asn Asn Met Pro Ala Tyr Gly Phe Ser
35 40 45

<210> 147
<211> 45
<212> PRT
<213> Homo sapien

<400> 147

Met Phe Gln Lys Lys Ser Arg Gly Ser Gln Ile Ser Leu Lys Lys Tyr
1 5 10 15

Phe Thr Thr Tyr Phe Phe Ser Gln Ile Cys His Met Glu Leu Cys Ile
20 25 30

Ile Ile His Met Asn Ser Gln Phe Ile Thr Tyr Leu Leu
35 40 45

<210> 148
<211> 70
<212> PRT
<213> Homo sapien

<400> 148

Met Ala Phe Tyr Leu Ile Met Leu Ile Lys Thr Leu Lys Ala Lys His
1 5 10 15

Phe Glu Ala Leu Glu Asn Leu Ser Thr Asn Tyr Ala Arg Val Tyr Tyr
20 25 30

Lys Leu Ile Ile Lys Asp Thr Ile Val Thr Ala Arg Gly Gly Ala Arg
35 40 45

Lys Pro Asn Leu Ala Ile Ser Ser His Gly Gly Arg Arg Ala Ala Leu
50 55 60

Glu Gly Pro Leu Pro Ile
65 70

<210> 149
<211> 104
<212> PRT
<213> Homo sapien

<400> 149

Arg Cys Gly Asn Gln Val His Glu Thr Asn Pro Leu Glu Met Leu Arg

1 5 10 15

Leu Asp Asn Thr Leu Glu Glu Ile Ile Phe Lys Leu Val Pro Gly Leu
20 25 30

Arg Glu Gln Glu Leu Glu Arg Glu Ser Glu Phe Trp Lys Lys Asn Lys
35 40 45

Pro Gln Glu Asn Gly Gln Asp Asp Thr Ser Lys Ala Asp Lys Pro Lys
50 55 60

Val Asp Glu Glu Gly Asp Glu Asn Glu Asp Asp Lys Asp Tyr His Arg
65 70 75 80

Ser Asp Pro Gln Ile Ala Ile Cys Leu Asp Cys Leu Arg Asn Asn Gly
85 90 95

Gln Ser Gly Asp Asn Val Val Lys
100

<210> 150
<211> 50
<212> PRT
<213> Homo sapien

<400> 150

Met Ser Leu Tyr Leu Glu Lys Lys Ser Asn Asn Thr Thr Ser Val Asn
1 5 10 15

Phe Cys Ser Ser Glu Lys Ser Ile Ser Ile Thr Pro Val Gly Ser Ser
20 25 30

Arg Ser Tyr Ile Pro Pro Leu Ala Lys Val Arg Leu Ile Lys Leu Trp
35 40 45

Gly Gly
50

<210> 151
<211> 54
<212> PRT
<213> Homo sapien

<400> 151

Met Val Leu Leu Ser Ser Ala Met Ser Ser Gln Ile Phe Ser Leu Leu
1 5 10 15

Thr Leu Ser Val Phe Gly Lys Gly Val Met Lys Tyr Pro Ile Ile Thr
20 25 30

Ile Asp Ser Ser Ile Cys Pro Cys Ser Ser Phe Ser Phe Cys Ser Thr
35 40 45

Tyr Phe Tyr Ala Ile Leu
50

<210> 152
<211> 26
<212> PRT
<213> Homo sapien

<400> 152

Met Leu Pro Met Ser Leu Arg Arg Tyr His His Tyr Asn Tyr Ser Leu
1 5 10 15

Ser Trp Tyr Gln Trp Lys Val Asn Leu Thr
20 25

<210> 153
<211> 36
<212> PRT
<213> Homo sapien

<400> 153

Met Gly Gln Ile Lys Ser Leu Gly Ser Asp Asp Gln Met Thr Arg Ser
1 5 10 15

Ile Cys Lys Thr Ile Leu Asn Phe Gly Glu Ser Phe Pro Ile Phe Thr
20 25 30

Ala Trp Ile Pro
35

<210> 154
<211> 49
<212> PRT
<213> Homo sapien

<400> 154

Met Ser Pro Leu Val Asn Trp Ser Lys Pro Asn Lys Leu Pro Thr Ile
1 5 10 15

Lys Pro Thr Ser Asn Pro Cys Pro Ser Leu Pro Phe Phe Ala Phe Phe
20 25 30

Asn Gly Lys Glu His Lys Arg Arg Ile Gly Cys Leu Phe Ile Ser Phe
35 40 45

Phe

<210> 155
<211> 54
<212> PRT
<213> Homo sapien

<400> 155

Met Ser Gln Lys Val Thr Arg Thr Pro Lys Val Val Glu Asn Leu Ile
1 5 10 15

Asn Arg His Asn Asn Pro Lys Met Ser Trp Asn Cys Ser Lys Lys Met
20 25 30

Gln Thr Ser Gln Leu Gln Gly Asn Phe Arg Asn Asn Arg Ser Asn Phe
35 40 45

Gln Arg Ser Ser Ser His
50

<210> 156
<211> 72
<212> PRT
<213> Homo sapien

<400> 156

Tyr Ile Leu Asn Phe Phe Tyr Ala Phe Leu Cys Val Val Tyr His Val
1 5 10 15

Phe Ser Arg Ile Ser Leu Asn Phe Tyr Tyr Tyr Tyr Tyr Leu Asp Thr
20 25 30

Val Ser His Tyr Val Ala Gln Gly Gly Leu Glu Leu Leu Gly Ser Ser
35 40 45

Asn Pro Pro Thr Ser Ala Ser His Val Ala Gly Thr Thr Gly Met Tyr
50 55 60

Leu Cys Leu Val Phe Ser Ala Leu

65 70

<210> 157
<211> 69
<212> PRT
<213> Homo sapien

<400> 157

Met Asp Leu Arg Thr His Phe Leu Asp Gln Ile Asn Leu Glu Asn Ala
1 5 10 15

Ile Leu Met Pro Ser Tyr Leu Arg Thr Val Ile Tyr His Phe Asn Ser
20 25 30

Phe Ser Ala Met Ser His Met Gly Arg Thr Lys His Leu Leu Thr Asn
35 40 45

Lys Arg Asp Ser Glu Arg Lys Leu Lys Ser Glu Ile Leu Val Glu Lys
50 55 60

His Ser Lys Arg Ile
65

<210> 158
<211> 46
<212> PRT
<213> Homo sapien

<400> 158

Met Ser Ser Leu Ala Ala Thr Gln Thr Arg Lys Pro Trp Glu Phe Pro
1 5 10 15

Ser Ala Val Val Gln Arg Arg Tyr Arg Asn Val Thr Leu His Leu Ile
20 25 30

Val Thr Cys Ser Val Asn Arg Ile Ala Ser Thr Leu Ala Pro
35 40 45

<210> 159
<211> 62
<212> PRT
<213> Homo sapien

<400> 159

Met Gln Asn Glu Ser Leu Gln Gly Lys Gln Gly Ile Gln Lys Arg Asn
1 5 10 15

Lys Asn Cys Lys Met Phe Ser Cys Gln Arg Thr Tyr Lys Lys Leu Ser
20 25 30

Glu Thr Leu Arg Phe Lys Phe Leu Val Leu Glu Ser Arg Ser Glu Asp
35 40 45

Pro Gly Glu Arg Glu Lys Gly Val Leu Ser Ile Gln Ile Met
50 55 60

<210> 160
<211> 46
<212> PRT
<213> Homo sapien

<400> 160

Met Tyr Glu Thr Pro Val His Pro Asp His Asn Pro Thr Phe Leu Thr
1 5 10 15

Cys Ala Tyr Asn Asn Tyr Leu Ile Ser Asn Met Ser Gln Phe Ser Ile
20 25 30

Ser Phe Leu Leu Thr Asn Phe Asn Pro Glu Asn Ser Lys Glu
35 40 45

<210> 161
<211> 25
<212> PRT
<213> Homo sapien

<400> 161

Met Leu Pro Arg Ala Ser Ile Leu Gln Arg Val Leu Phe Lys Asp Tyr
1 5 10 15

Gly Arg Pro Gln Asp Trp Phe Ile Ile
20 25

<210> 162
<211> 33
<212> PRT
<213> Homo sapien

<400> 162

Met Leu Ser Thr Gly Ile Leu Ile Leu Ser Leu Gln Lys Ile Asn His
1 5 10 15

Gln Asn His Trp Ile Gln Ile Lys Ile Lys Thr Asn Ser Ala Gln Tyr

20 25 30

Gly

<210> 163
<211> 77
<212> PRT
<213> Homo sapien

<400> 163

Met Gly Arg Gly Gln Asn Gln Arg Lys Gly Trp Cys Val Ala Thr Val
1 5 10 15

Leu Gly Met Gly Ala Val Ser Leu Thr Thr Pro Pro Phe Ala Gly Gln
20 25 30

Glu Cys Ile Cys Phe Ser Gly Ala Arg Pro Arg Pro Cys Arg Phe Arg
35 40 45

Cys Glu Phe Trp Pro Leu Gly Arg Pro Pro Gly Gly Arg Thr Cys Phe
50 55 60

Phe Gly His Cys Leu Leu Asn Arg Ala Gln Met Ala Met
65 70 75

<210> 164
<211> 34
<212> PRT
<213> Homo sapien

<400> 164

Met Ser Thr Ile Ser Ser Ser Pro Leu Pro Asp Ser His Gly Val Thr
1 5 10 15

His Arg Pro Arg Arg Lys Gly Asn Ser Leu Ile Val Leu Gln Ile Arg
20 25 30

Asn Gly

<210> 165
<211> 67
<212> PRT
<213> Homo sapien

<400> 165

Met Gly Thr Thr Trp Ile Thr Ser Pro Ala Pro Met Gly Trp Asn Ser
1 5 10 15

Leu Tyr Arg Val Pro Pro Arg Gly Thr Gln Met Gly Arg Pro Ser Ser
20 25 30

Gly Arg Thr Phe Arg Leu Leu Ser Thr Leu Ala Leu Met Asn Asn Ala
35 40 45

Ser Met Asn Asn His Ile Gln Val Phe Leu Gly Lys Lys Lys Val Ile
50 55 60

Ser Leu Glu
65

<210> 166
<211> 46
<212> PRT
<213> Homo sapien

<400> 166

Met Gly Leu Tyr Ile Ile Lys Ile Thr Gln Gly Leu Lys Asn Thr Leu
1 5 10 15

Asn Pro Trp Phe Leu Leu Ser Val Ile Lys His Ser Leu Ser Lys Leu
20 25 30

Ala Cys Val Asn Ala Ile Asn Ile Phe Gln Phe Lys Cys Tyr
35 40 45

<210> 167
<211> 54
<212> PRT
<213> Homo sapien

<400> 167

Met Cys Thr Ala Arg Gly Lys Trp Phe Tyr Thr Leu Val Ser Trp Val
1 5 10 15

Ser Lys Leu Phe Val Gln Thr Leu Ile Cys Phe Leu Glu Lys Val Ala
20 25 30

Asp Lys Pro Ile Trp Lys Met Glu Ile Phe Ile Asn Trp Val Asn Leu
35 40 45

Val Gly Ile Asp Pro Leu
50

<210> 168
<211> 53
<212> PRT
<213> Homo sapien

<400> 168

Met His Ser His Phe Tyr Tyr Phe Ile Leu Tyr Gln Tyr Ile Val Phe
1 5 10 15

Ile Thr Tyr Tyr Tyr Ile Gln Val Phe Leu Leu Ser Ile Leu Ser Arg
20 25 30

Arg Thr Leu Thr Phe Leu Val Val Glu Gly Leu Arg Ile Arg Ser Glu
35 40 45

Tyr Leu Glu Ala Lys
50

<210> 169
<211> 37
<212> PRT
<213> Homo sapien

<400> 169

Met Lys Ser Gly Trp Pro Trp Ser Cys Phe Val Asp Ile Phe Ser Glu
1 5 10 15

His Ser Ser Ser Ser Trp Ser Pro Cys Arg Lys His Leu Lys Ser Ser
20 25 30

Lys Leu Asn Lys Ile
35

<210> 170
<211> 135
<212> PRT
<213> Homo sapien

<400> 170

Met Leu Pro Thr Ile Trp Gly Ala Val Phe Pro Pro Leu Ile Trp Ala
1 5 10 15

Pro Phe Ile Phe Pro Gly Val Pro His Ile Leu Gln Gly Glu His Pro
20 25 30

Ile Gly Pro Lys Pro Cys Ala Ala Thr Ser Pro Phe Pro Tyr Thr Ile
35 40 45

Phe Ser Pro Ala Val Lys Phe Asn Pro Phe Ser Pro Pro Pro Arg Phe
50 55 60

Ser Gly Tyr Phe Pro Asp Val Pro Pro Pro Phe Leu Arg Ala Ile Pro
65 70 75 80

Arg Ser Gly Leu Pro Pro Pro Arg Gly Tyr Ser Pro His Ser Arg Lys
85 90 95

Gly Ser Pro His Ile Phe Leu Thr Pro Arg Val Tyr Phe Lys Asn Phe
100 105 110

Pro Arg Ile Trp Gly Ala Leu Leu Leu Leu Lys Pro Glu Asn Leu Leu
115 120 125

Leu Tyr Gly Gly Pro Leu Ser
130 135

<210> 171
<211> 57
<212> PRT
<213> Homo sapien

<400> 171

Met Leu Ile Phe Phe Ser Leu Pro Leu Ala Val Ser Val Thr Met Ser
1 5 10 15

Thr Phe Leu Asp Met Phe Ala His Ile Val Leu Pro Ala Glu Thr Glu
20 25 30

Asp Leu Gly Leu Gly Leu Ser Ala Leu His Thr Val Pro Ala Cys Ser
35 40 45

Pro Val Pro Ser Trp Ile Arg Cys Leu
50 55

<210> 172
<211> 77
<212> PRT
<213> Homo sapien

<400> 172

Met Glu Gly Tyr Trp Ile Tyr Asn Asn Arg His Ile Ser Lys Val Tyr
1 5 10 15

Asn Leu Arg Phe Tyr Ile Met Val Tyr Thr Pro Trp Lys Pro Leu Lys
20 25 30

Ile Gly Glu Tyr Ile His His Tyr Ser Pro Lys Ile Phe Leu Met Asn
35 40 45

Ser Phe Val Ile Ser Leu Pro Phe Phe Pro Ile Ser Arg Thr Leu Ala
50 55 60

Ser Ser Gly Asn His Gly Ser Ala Phe Ser Leu Tyr Arg
65 70 75

<210> 173
<211> 33
<212> PRT
<213> Homo sapien

<400> 173

Met Met Cys Gln Lys Leu Thr Asp Glu Leu Ile Tyr Ser Val Leu Ser
1 5 10 15

Lys Pro Asp Gly Ala Ser Pro Ala Pro Ile Arg Ile Ala Ala His Cys
20 25 30

Ala

<210> 174
<211> 48
<212> PRT
<213> Homo sapien

<400> 174

Met Thr Glu His Ser Thr Gly Arg Phe Val Trp Tyr Pro Ser Cys Asp
1 5 10 15

Glu Ser Asp His Ile Ser Pro Pro Ile Cys Trp Glu Phe Ala Leu Ala
20 25 30

Gly Gln Lys Met Trp Thr Gly Ile Ala Thr Thr Ala Leu Gln Pro Gly
35 40 45

<210> 175
<211> 57
<212> PRT
<213> Homo sapien

<400> 175

Met Ile Leu Asn Ser Leu Ile Ser Pro Leu Gly Leu Ala Leu Ala Lys
1 5 10 15

Ile Phe Asp Asn Val Ser Gln Asp Ile Leu Arg Asn Asn Thr Lys Lys
20 25 30

Tyr Gly Leu Asp Ala Asn Ala Ile Lys Val Glu Arg Lys Cys Leu Tyr
35 40 45

Tyr His Thr Glu Lys Leu Leu Ile Cys
50 55

<210> 176
<211> 41
<212> PRT
<213> Homo sapien

<400> 176

Met Ile Thr Ile Leu Val His Leu Val Asn Asp Thr Arg Ala Val Leu
1 5 10 15

Gly Val Pro Gly Lys Gly Ile Pro Glu Ala Gly Lys Leu Thr Ser Thr
20 25 30

Arg Gly Leu Phe Gly His His Gly Ile
35 40

<210> 177
<211> 75
<212> PRT
<213> Homo sapien

<400> 177

Met Arg Phe Cys Cys Cys His Phe Ser Thr Val Thr Leu Gly Leu Val
1 5 10 15

Val Trp Leu Gly Asn Glu Phe Leu Gln Asn Tyr Glu Gly Ile Ala Thr
20 25 30

Trp Ser Ser Ser Phe Leu Thr Leu Leu Trp Arg Met Arg Ser Leu Lys
35 40 45

Pro Phe Asn Ser Leu Ser Phe Leu Gly Asp Phe Ser Pro Ala Leu Asn
50 55 60

Cys Leu Val Phe Gln Cys Ser Glu Asn Cys Lys
65 70 75

<210> 178
<211> 87
<212> PRT
<213> Homo sapien

<400> 178

Met Val Ile Ile Lys Ile Val Lys Leu Ile Ser Cys Trp Trp Pro Gly
1 5 10 15

Ala Val Pro His Ala Cys Ile Pro Ala Leu Cys Asp Ala Glu Ala Gly
20 25 30

Met Ile Thr Met Val Arg Met Ile Gly Asp His Pro Val Pro Thr Thr
35 40 45

Ser Asp Asn Pro Val Leu Leu Leu Asn Asn Thr Lys Lys Lys Leu Ala
50 55 60

Gly Ser Leu Val Val Gly Ile Leu Val Ser Ser His Ala Tyr Pro Arg
65 70 75 80

Ser Ala Glu Ala Val Ile Tyr
85

<210> 179
<211> 541
<212> PRT
<213> Homo sapien

<400> 179

Met Asp Gly Ala Val Met Glu Gly Pro Leu Phe Leu Gln Ser Gln Arg
1 5 10 15

Phe Gly Thr Lys Val Val Trp Arg Met Asp Ala Glu Pro Tyr Pro Gly
20 25 30

Ala Ala Trp Val Arg Glu Pro Arg Asn Arg Glu Arg Arg Trp Arg Lys
35 40 45

Thr Trp Ala Val Leu Tyr Pro Ala Ser Pro His Gly Val Ala Arg Leu
50 55 60

Glu Phe Phe Asp His Lys Gly Ser Ser Ser Gly Gly Gly Arg Gly Ser
65 70 75 80

Ser Arg Arg Leu Asp Cys Lys Val Ile Arg Leu Ala Glu Cys Val Ser
85 90 95

Val Ala Pro Val Thr Val Glu Thr Pro Pro Glu Pro Gly Ala Thr Ala
100 105 110

Phe Arg Leu Asp Thr Ala Gln Arg Ser His Leu Leu Ala Ala Asp Ala
115 120 125

Pro Ser Ser Ala Ala Trp Val Gln Thr Leu Cys Arg Asn Ala Phe Pro
130 135 140

Lys Gly Ser Trp Thr Leu Ala Pro Thr Asp Asn Pro Pro Lys Leu Ser
145 150 155 160

Ala Leu Glu Met Leu Glu Asn Ser Leu Tyr Ser Pro Thr Trp Glu Gly
165 170 175

Arg Arg Leu Arg Ser Pro Gly Arg Asp Gly Val Lys Arg Arg Arg Ala
180 185 190

Glu Gly Leu Trp Glu Val Gly Gly Tyr Pro Gly Ala His Gly Glu Val
195 200 205

Arg Ser Arg Lys Ala Leu Arg Ser Gly Phe Arg Leu Ser Asn Arg Val
210 215 220

Cys Leu Pro Gly Ser Gln Phe Trp Val Thr Val Gln Arg Thr Glu Ala
225 230 235 240

Ala Glu Arg Cys Gly Leu His Gly Ser Tyr Val Leu Arg Val Glu Ala
245 250 255

Glu Arg Leu Thr Leu Leu Thr Val Gly Ala Gln Ser Gln Ile Leu Glu
260 265 270

Pro Leu Leu Ser Trp Pro Tyr Thr Leu Leu Arg Arg Tyr Gly Arg Asp
275 280 285

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Lys Val Met Phe Ser Phe Glu Ala Gly Arg Arg Cys Pro Ser Gly Pro
    290                 295                 300

Gly Thr Phe Thr Phe Gln Thr Ala Gln Gly Asn Asp Ile Phe Gln Ala
305                 310                 315                 320

Val Glu Thr Ala Ile His Arg Gln Lys Ala Gln Gly Lys Ala Gly Gln
                325                 330                 335

Gly His Asp Val Leu Arg Ala Asp Ser His Glu Gly Glu Val Ala Glu
            340                 345                 350

Gly Lys Leu Pro Ser Pro Pro Gly Pro Gln Glu Leu Leu Asp Ser Pro
        355                 360                 365

Pro Ala Leu Tyr Ala Glu Pro Leu Asp Ser Leu Arg Ile Ala Pro Cys
    370                 375                 380

Pro Ser Gln Asp Ser Leu Tyr Ser Asp Pro Leu Asp Ser Thr Ser Ala
385                 390                 395                 400

Gln Ala Gly Glu Gly Val Gln Arg Lys Lys Pro Leu Tyr Trp Asp Leu
                405                 410                 415

Tyr Glu His Ala Gln Gln Gln Leu Leu Lys Ala Lys Leu Thr Asp Pro
            420                 425                 430

Lys Glu Asp Pro Ile Tyr Asp Glu Pro Glu Gly Leu Ala Pro Val Pro
        435                 440                 445

Pro Gln Gly Leu Tyr Asp Leu Pro Arg Glu Pro Lys Asp Ala Trp Trp
    450                 455                 460

Cys Gln Ala Arg Val Lys Glu Glu Gly Tyr Glu Leu Pro Tyr Asn Pro
465                 470                 475                 480

Ala Thr Asp Asp Tyr Ala Val Pro Pro Pro Arg Ser Thr Lys Pro Leu
                485                 490                 495

Leu Ala Pro Lys Pro Gln Gly Pro Ala Phe Pro Glu Pro Gly Thr Ala
            500                 505                 510

Thr Gly Ser Gly Ile Lys Ser His Asn Ser Ala Leu Tyr Ser Gln Arg
```

515 520 525

Ile Gln Ile Pro Gly Arg Gly Lys Gly Glu Gly Gly Gly
530 535 540

<210> 180
<211> 48
<212> PRT
<213> Homo sapien

<400> 180

Met Ala Lys Tyr Ile Leu Leu Glu Lys Ser Ala Lys Leu Ile Arg Arg
1 5 10 15

Ile Tyr Ser Ala Leu Ser Leu Tyr Ile Ser Val Val Leu Ser Ser Lys
20 25 30

Ala Ile Trp Gln Asn Asn Glu Tyr Ile Tyr Ser Ser Lys Glu His Asn
35 40 45

<210> 181
<211> 46
<212> PRT
<213> Homo sapien

<400> 181

Met Ala Cys Lys Pro Gly Arg Gly Thr Glu Ser Leu Gln Val Lys Pro
1 5 10 15

Thr Glu Leu Gln Pro Pro Ala His Ser Thr Ala Trp Ala Thr Glu Gln
20 25 30

Lys Ser Val Ser Lys Lys Lys Lys Lys Lys Leu Leu Val Leu
35 40 45

<210> 182
<211> 79
<212> PRT
<213> Homo sapien

<400> 182

Met Gln Lys Glu Gly His Arg Arg Leu Asp Ala Ser Pro Ser Phe Leu
1 5 10 15

Gln Glu Leu Leu Ser Glu Asn Asn Thr Lys His Thr Leu Gln His Thr
20 25 30

Thr Ile Leu Trp Asn Leu Ser Thr Asn Ala Leu Tyr Phe Leu His Thr
35 40 45

Leu Arg Asn Ile Leu Phe Asn Ile Phe Ile Asn Ile Ile Ile Pro Arg
50 55 60

Asn Val Val Ile Leu Leu Cys Asn Val Thr Pro Tyr Thr Arg Ile
65 70 75

<210> 183
<211> 34
<212> PRT
<213> Homo sapien

<400> 183

Met Met Ile Lys Ser Arg Tyr Leu Leu Pro Gln Arg Phe Phe Ile Tyr
1 5 10 15

Ser Glu Asn Ile Gln Asn Ser Leu Leu Pro Gly Asn Leu Glu Lys Asn
20 25 30

Pro Ile

<210> 184
<211> 114
<212> PRT
<213> Homo sapien

<400> 184

Met Gly Val Ser Ser Tyr Trp Val Ser Gly Ser Ser Ser Phe Val Cys
1 5 10 15

Ser Ala Thr Val Leu Ser Leu Leu Phe Cys Val Phe Gly Leu Phe Ile
20 25 30

Cys Leu Val Phe Gly Leu Ile Cys Ser Leu Leu Phe Ser Thr Ile Leu
35 40 45

Phe Cys Val Val Ser Arg Pro Trp Cys Asn Asn Cys Leu Ser Thr Pro
50 55 60

Ser Gly Val Cys Arg Ser Ser Val Ser Ser Cys Phe Gly Ser Leu Cys
65 70 75 80

Tyr Leu Leu Ser Pro Cys Asp Pro Asn Val Arg Ser Leu Phe Leu Tyr
85 90 95

Phe Ile Phe Phe Phe Leu His Thr Thr Val Tyr Gly Cys Gln Ile Asp
100 105 110

Lys Gly

<210> 185
<211> 47
<212> PRT
<213> Homo sapien

<400> 185

Met Thr Arg Leu Glu Phe His Trp Ser Asn His Gly Ser Leu His Pro
1 5 10 15

Arg Pro His Gln Phe Gln Glu Ile Leu Pro Pro Gln Gly Ser Arg Glu
20 25 30

Ala Lys Ile Ile Gly Thr Cys Pro Gly Gly Ala Arg Lys Pro Asn
35 40 45

<210> 186
<211> 82
<212> PRT
<213> Homo sapien

<400> 186

Met Asn Thr Ser Leu Asp Cys Lys Arg Arg Gln Gly Gln Cys Arg Glu
1 5 10 15

His Cys Lys Lys Thr His Arg His Pro Pro Trp Pro Pro Leu Ile Ser
20 25 30

Ala Val Ala Thr Ser Gly Gln Val Ala Pro Ile Gly Ala Gln Met Leu
35 40 45

Leu Ser Leu Thr Ala Ile Leu Ile Val His Glu Val Ala Cys Ser Ser
50 55 60

Ala Phe Pro Pro Gln Ala Arg Ser Pro Ala Pro Met Glu His His Lys
65 70 75 80

Ser Val

<210> 187
<211> 85
<212> PRT
<213> Homo sapien

<400> 187

Met Glu Phe Gly Phe Glu Arg Pro Pro Gly Gln Val Pro Leu Lys Leu
1 5 10 15

Leu Leu Pro Phe Phe Phe Gly Pro His Leu Asp Arg Leu Thr Arg Lys
20 25 30

Pro Met Tyr Ala Ser Ser Ser Ser Ile Cys Glu Lys Phe Lys Leu Cys
35 40 45

Lys Ser Ser Thr Cys Thr Trp Glu Leu Phe Phe Ile Pro Thr Leu Tyr
50 55 60

Gln Leu Glu Thr Pro Ile Pro Leu His Leu Arg Glu Glu Thr Thr Pro
65 70 75 80

Ser Tyr Cys Leu Met
85

<210> 188
<211> 72
<212> PRT
<213> Homo sapien

<400> 188

Met Pro Cys His Ser Ile Leu Pro Tyr Tyr Thr Ile Phe Ser Phe Lys
1 5 10 15

Gly Phe Ile Phe Pro Thr Ser Leu Ser Leu Lys Gly Arg Ser Gln Asn
20 25 30

Ser Cys Met Gly Ile Thr Pro Val Thr Met His Ile Gly Phe Val Ile
35 40 45

Asn Ile Ser Glu Lys Ser Asn Met Met Asn Glu Asn Leu Ser Asn Asn
50 55 60

Val Asn Lys Ala Tyr Arg Ile Gln
65 70

<210> 189
<211> 31
<212> PRT
<213> Homo sapien

<400> 189

Met Arg Pro Arg Tyr Asn Asn Leu Phe Ala Leu Phe Phe Leu Pro Leu
1 5 10 15

Asn Phe Ser Val Val Ser Leu Ala Met Phe Leu Glu Lys Arg Ser
20 25 30

<210> 190
<211> 125
<212> PRT
<213> Homo sapien

<400> 190

Met Ala Ala Ala Phe Ser Pro Pro Ser Leu Pro Val Pro Ser Leu Leu
1 5 10 15

Ser Ser Phe Ser Pro Ser Ala Arg Arg Pro Pro Ala Leu Thr Ser Ser
20 25 30

Pro Pro Pro Pro Pro Val Ala Ser Pro Ala Arg Ala Ala Arg Arg Arg
35 40 45

Pro Pro Ala Pro Pro Ser Ser His Pro Pro Arg Ala Pro Pro Pro Pro
50 55 60

Ser Ser Ser Pro Leu Pro Pro Leu Pro Pro Arg Ala Leu Pro Leu Ser
65 70 75 80

Ala Leu Pro Pro Leu Ala Ser Ser Pro Leu Phe Leu Phe Pro Pro Leu
85 90 95

Asn Ile Ile Leu Cys Val Trp Arg Asp Ile Leu Phe Val Ser Arg Arg
100 105 110

Arg Phe Lys His Thr His Cys Ser His Thr His Gly Arg
115 120 125

<210> 191
<211> 57
<212> PRT

<213> Homo sapien

<400> 191

Met Ile Leu Lys Leu Leu Gln Gln Leu Tyr Lys Val Thr Gln Asn His
1 5 10 15

Val Thr Leu Phe Ser Tyr Leu Ser Leu Leu Leu Pro Asp His Cys Gln
20 25 30

His Asn Phe Tyr Thr Ser Ser Pro Gln Ser Ala Ser Leu Gly His Ala
35 40 45

Pro Gln Tyr Ala Val Ile Phe Phe Val
50 55

<210> 192
<211> 19
<212> PRT
<213> Homo sapien

<400> 192

Met Ser Thr Leu Leu Met Asn Pro Ile Lys Cys Thr Pro Tyr Cys Lys
1 5 10 15

Leu Gln Val

<210> 193
<211> 33
<212> PRT
<213> Homo sapien

<400> 193

Met Arg Lys Ile Tyr Gly Gly His Val Thr Arg Leu Thr Asn Asn Leu
1 5 10 15

Tyr Cys Pro Gly Gly Ala Arg Lys Pro Asn Ser Ser Thr Leu Arg Ala
20 25 30

Leu

<210> 194
<211> 53
<212> PRT
<213> Homo sapien

<400> 194

Met Ala Trp Leu Ile Phe Phe Val Phe Phe Val Glu Thr Gly Phe His
1 5 10 15

His Val Ala Gln Gly Gly Leu Lys Leu Leu Ser Ser Ser Asn Gln Pro
20 25 30

Pro Lys Val Phe Gly Ile Thr Gly Ala Thr Tyr Leu Ala Gln Pro Lys
35 40 45

Ile Val Phe Val Ser
50

<210> 195
<211> 41
<212> PRT
<213> Homo sapien

<400> 195

Met Arg Leu Cys Val Ser Met Leu Ile Ser Tyr Leu Ile Lys Arg Arg
1 5 10 15

Lys Lys Tyr Ser Pro Glu His Val Ser Arg Phe Gln Ile Ile Ile His
20 25 30

Ala Arg Asp Arg Phe Lys Gln Asp Leu
35 40

<210> 196
<211> 78
<212> PRT
<213> Homo sapien

<400> 196

Met Asn Ser Gln Val Phe Val Leu Ala Cys Pro Arg Pro Ser Tyr Tyr
1 5 10 15

Pro Lys Arg Trp Leu Cys Ser Leu Cys Ile Trp Val Thr Ser Thr Lys
20 25 30

Ser Ile Ser Asn Tyr Leu Lys His Ser Val Ser Ser Ile Cys Lys Met
35 40 45

Arg Ile Asn Asn Val Thr Ser Gln Leu Thr Gly Cys Ser Glu Asp Ser
50 55 60

Thr Arg Tyr Cys Ile Gln Ile Thr Ser Val Leu Leu Thr Ser
65 70 75

<210> 197
<211> 38
<212> PRT
<213> Homo sapien

<400> 197

Met Leu Ala Leu Ala Gly Val His Leu Pro Gly Ala Ala Arg Lys Pro
1 5 10 15

Ile Pro Ala His Cys Ala Cys Ile Ser Asp Gly Ala Arg Leu Thr Gly
20 25 30

Thr Phe Ser Phe Phe Leu
35

<210> 198
<211> 27
<212> PRT
<213> Homo sapien

<400> 198

Met Gln Thr Glu Lys Val Cys Gln Ser Phe Gly Tyr Val Tyr Val Ile
1 5 10 15

Ala Tyr Leu Leu Trp Ile Pro Leu Ile Ser Lys
20 25

<210> 199
<211> 15
<212> PRT
<213> Homo sapien

<400> 199

Met Leu Leu Glu Gly Phe Val Phe Val Leu Leu Leu Lys Leu Trp
1 5 10 15

<210> 200
<211> 106
<212> PRT
<213> Homo sapien

<400> 200

Met Gly Leu Thr Arg Thr Ser Ala Arg Gln Ser Val Gly Glu Tyr Thr
1 5 10 15

Cys Asp Leu Arg Val Val Ile Gly Val Glu Thr Val Arg Gln Pro Gly
20 25 30

Leu Gln Ile Ala Pro Glu Arg Thr Val Tyr Gln Thr Ala Lys Thr Lys
35 40 45

Glu Gly Glu Arg Gly Gly Ser Glu Arg Gln Thr Arg Glu Arg Arg Arg
50 55 60

Arg Glu Arg Glu Glu Arg Arg Arg Asp Glu Glu Ser Gly Glu Gly Thr
65 70 75 80

Arg Lys Arg Arg Glu Gly Arg Ala Ala Lys Arg Thr Ala Gly Glu Gly
85 90 95

Gly Arg Arg Gly Gly Glu Ala Thr Arg Glu
100 105

<210> 201
<211> 69
<212> PRT
<213> Homo sapien

<400> 201

Met Leu Arg Phe Gly Ser Ser Leu Ile Phe Leu Thr Leu Ile Val His
1 5 10 15

Ile Leu Tyr Leu Ser Leu Gly Ser Cys Asn Arg Met Val Tyr Val Leu
20 25 30

Lys Ala Thr Leu Arg Lys Phe Ile Ser Tyr Leu Tyr Thr Thr Gly Asp
35 40 45

Leu Tyr Asn Ser Val Thr Lys Phe Pro Trp Ile Val Gln Lys Asn Gln
50 55 60

Phe Thr Phe Ser Tyr
65

<210> 202
<211> 90
<212> PRT
<213> Homo sapien

<400> 202

Met Ala Asn Trp Ile Met Leu Met Ile Leu Asn Leu Lys Ile Ser Asn
1 5 10 15

Lys Asn Phe Asn Ile His Lys Ala Lys Thr Asp Lys Ala Lys Arg Arg
20 25 30

Asn Lys Glu Ile His Asn His Asn Gly Arg Phe Tyr Thr Ser Leu Ser
35 40 45

Glu Thr Asp Ile Cys Arg Gln Lys Leu Val Arg Ile Gln Asn Met Leu
50 55 60

Thr Gln Leu Asn Lys Met Asp Thr Pro Arg Ala Val Tyr Leu Val Asn
65 70 75 80

Ala Leu Leu His Val Leu Tyr Lys Tyr Glu
85 90

<210> 203
<211> 65
<212> PRT
<213> Homo sapien

<400> 203

Met His Lys Asn Arg Gln Phe Thr Gln Lys Glu Ile His Thr Ser Trp
1 5 10 15

Ser Leu Asn Thr Leu Arg Arg Cys Ser Thr Ser Leu Leu Ile Lys Lys
20 25 30

Cys Lys Ile Asn Tyr Thr Lys Val Ser Phe Ser Pro Thr Asn Phe Ser
35 40 45

Lys Lys Ile Pro Gln Leu Asp Asn Gly Gly Val Ser Tyr Leu Leu Ser
50 55 60

Leu
65

<210> 204
<211> 34
<212> PRT
<213> Homo sapien

<400> 204

Met Leu Thr Glu Ser Arg Glu Glu Lys Asn Leu Arg Lys Arg Arg Lys
1 5 10 15

Leu Asp Phe Trp Phe Phe Glu Thr Ala Gly Lys Lys Gly Gly Phe Gly
20 25 30

Gly Lys

<210> 205
<211> 48
<212> PRT
<213> Homo sapien

<400> 205

Met Glu His Phe Tyr Ser Cys Gly Asp Ile Gly Phe Tyr Leu Val Asn
1 5 10 15

Leu Leu Phe Lys Leu Phe Ile Thr Tyr Ser Asp Asn Phe Leu Lys Arg
20 25 30

Gln Ile Ile Phe Asn Tyr Leu Ile Leu Arg Lys Met Pro Pro His Phe
35 40 45

<210> 206
<211> 33
<212> PRT
<213> Homo sapien

<400> 206

Met Leu Ile Phe Asn Cys Pro Asn Tyr His Leu Phe Val Phe Leu Thr
1 5 10 15

Ser Arg Thr Lys Leu Gln Ile Val Ser Ile Thr Asn Phe Tyr Phe Cys
20 25 30

Lys

<210> 207
<211> 63
<212> PRT
<213> Homo sapien

<400> 207

Met Thr Lys Gln Met Ala Ala Val Glu Thr Ser Phe Pro Pro Leu Pro
1 5 10 15

Val Ser Val Tyr Ile Leu Met Asn Ala Asp Thr Val Leu Val Ala Phe
20 25 30

Ser Ala Asp Thr Val Leu Thr Ser Trp Lys Phe Gly Lys Thr Ser Gly
35 40 45

Asn Asn Phe Ser Leu Pro Val Leu Lys Leu Phe Arg Thr Phe Ile
50 55 60

<210> 208
<211> 32
<212> PRT
<213> Homo sapien

<400> 208

Met Ile Val Pro Ala Arg Ala Pro Leu Glu Ser Thr Asn Ser Ser Thr
1 5 10 15

Leu Arg Arg Ile Asn Asp Arg Ala Arg Thr Thr Trp Ser Leu Phe Ser
20 25 30

<210> 209
<211> 53
<212> PRT
<213> Homo sapien

<400> 209

Met Ser Glu Arg Gly Phe His Gln Gln Lys His Ser Ile Gly Cys Ile
1 5 10 15

Val Ile Leu Leu Tyr Asn His Ile Ile His Ile Tyr Cys Tyr Phe Leu
20 25 30

Leu Leu Lys Ile Arg Trp Leu Ile His Asp Leu Leu His Leu Cys Gly
35 40 45

Gln Arg Pro Ser Ser
50

<210> 210
<211> 56
<212> PRT
<213> Homo sapien

<400> 210

Met Gly Val Ser His Lys Ser Met Gly Lys Ala Leu Ser Pro Thr Phe
1 5 10 15

Tyr Phe Phe Leu Phe Ile Tyr Cys Leu Leu Leu Thr Met Tyr Pro Pro
20 25 30

Thr Pro Pro Asn Ile Ser Val Thr Phe Lys Gly Ala Ser Thr Phe Leu
35 40 45

Phe Thr Ala Val Thr Leu Asn Ala
50 55

<210> 211
<211> 67
<212> PRT
<213> Homo sapien

<400> 211

Met Thr Leu Ala Leu Phe Pro Ser Asp Ile Arg Ile Phe Pro Val Lys
1 5 10 15

Val Leu Leu Leu Val Asn Ser His Cys Gly Arg Leu Pro Cys Leu Ser
20 25 30

Ser Lys Gln Gln Val Cys His Asn Gln Ala Phe Pro Tyr Pro Arg Asn
35 40 45

Leu Ser Arg His Ile Ile Ala Gln Phe Gln Ser Pro Thr Ile Ser Pro
50 55 60

Phe Leu Pro
65

<210> 212
<211> 117
<212> PRT
<213> Homo sapien

<400> 212

Met Leu Cys Asp Arg Arg Glu Thr Ile Ser His Gln Ala Thr Ala Phe
1 5 10 15

Gly Pro Lys Gly Tyr Pro His Asn Cys Gly Asp Gln Asn Ser Gly Asp
20 25 30

Pro Leu Ser Val Pro Gly Arg Pro Met Gly Arg Trp Lys Ser Arg Leu

35 40 45

Lys Arg Leu Val Ala Arg Pro Glu Gly Ala Pro Asn Thr Gly Arg Gln
50 55 60

Arg Pro Leu Arg Ala Asn Pro Gly Ala Gln His Ala Phe Asp Val Gln
65 70 75 80

Lys Asp Phe Phe Ser Ala Gln Ile Leu Leu Val Gly Gly Gly Tyr Asn
85 90 95

Trp Lys Ile Asp Gly Thr Lys His Leu Phe Cys Phe Tyr Lys Ala Ser
100 105 110

Ile Gln Leu Ile His
115

<210> 213
<211> 39
<212> PRT
<213> Homo sapien

<400> 213

Met Ala Ala Asn Asn Phe Ser Gly Leu Gly Asp Glu Arg Leu Ser Cys
1 5 10 15

Gln Thr Gly Gln Ile Glu Arg His Thr Thr Phe Trp Gln Leu Ile Tyr
20 25 30

Phe Leu Phe Ile Leu Phe Tyr
35

<210> 214
<211> 48
<212> PRT
<213> Homo sapien

<400> 214

Met Asp Ala Phe Leu Val Ile Ile Cys Tyr Lys Lys Pro Ser Pro Lys
1 5 10 15

Ile Asn Asn Met Pro Glu Cys Ser His Phe Tyr Leu Leu Tyr Ala Arg
20 25 30

Glu Ala Pro Val Ile Thr Lys Thr His Cys Pro Cys Pro Arg Ile Lys
35 40 45

<210> 215
<211> 23
<212> PRT
<213> Homo sapien

<400> 215

Met Ile Gly Lys Ile Thr Arg Val Val Glu Lys Lys Thr Leu Gly Leu
1 5 10 15

Val Ser Val Pro Gln Lys Ser
20

<210> 216
<211> 49
<212> PRT
<213> Homo sapien

<400> 216

Met Leu Arg Val Lys Asn Trp Glu Ile Gln Thr Gln Ile Leu Leu Arg
1 5 10 15

Leu Asp Gln Ser Ile Phe Ile Lys Cys Leu Val Gly His Lys Asn Thr
20 25 30

Pro Ile Thr Glu Leu Ala Tyr Tyr Tyr Pro Leu Tyr Asn Ser Arg Glu
35 40 45

Ser

<210> 217
<211> 89
<212> PRT
<213> Homo sapien

<400> 217

Met Arg Leu Ile Ile Cys Thr Ser Val Asp Trp Asn Asn Ser Ile Ile
1 5 10 15

Ser Leu Pro Asn Val Glu Trp Met Pro His Pro Ile Leu Leu Lys Phe
20 25 30

Cys Asn Ser Asn Arg Ile Ala Asn Ile Asn Ile Phe Phe Leu Ser Cys
35 40 45

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Asn Ala Trp Thr Val Phe Glu Ala Leu Gly His Trp Phe Phe Ser Val
    50                  55                  60

Pro Phe Phe Phe Ile Phe Leu Phe Leu Gly Gly Glu Glu Ser Phe Phe
65                  70                  75                  80

Ser Lys Thr Lys Gln Lys Gly Leu Leu
                85
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